

**DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
CHECK LIST - RECORDS RECEIVED AND WELL STATUS**

COMPANY Aera Energy LLC WELL NO "Field Fee" G2
 API NO. 083-22694 22694 SEC. 32, T. 9N, R. 32W, S.B. B.&M.
 COUNTY Santa Barbara FIELD Cat Canyon

<u>RECORDS RECEIVED</u>	<u>DATE</u>	<u>STATUS</u>
Direction Survey _____		<u>Plugged + Suspended</u>
Well Summary (form OG 100) _____		(Date) _____
History (form OG 103) <u>9-9-13</u>		<input checked="" type="checkbox"/> Engineer's Check List
Core Record and/or SWS _____		<input checked="" type="checkbox"/> Summary, History, & Core Record
Other: _____		<input type="checkbox"/> Directional Survey
Electric logs: _____		<input type="checkbox"/> Logs
_____		<input checked="" type="checkbox"/> Operator's Name
_____		<input checked="" type="checkbox"/> Signature
_____		<input type="checkbox"/> Well Designation
_____		<input type="checkbox"/> Location _____
_____		<input type="checkbox"/> GPS Location Received
_____		<input type="checkbox"/> Entered in Computer
_____		<input checked="" type="checkbox"/> Notice
_____		<input type="checkbox"/> "T" Reports
_____		<input checked="" type="checkbox"/> Casing Record
_____		<input type="checkbox"/> Plugs (Sfc. Plg Date) _____
_____		<input type="checkbox"/> Final Sfc. Insp Date _____
_____		<input type="checkbox"/> Production/Injection

Clerical Check List

Form OGD121 _____
 _____ Location change (OG165) _____
 _____ Elevation change (GD165) _____
 _____ Final Letter (OG159) _____
 _____ Release of Bond (OGD150) _____
 _____ Abd _____ in WSS _____
 _____ Notice of Records Due (OGD170) _____
 _____ Request: _____

Computer

_____ CalWims Drill Card
 _____ Idle Well Status Change
 (F: Idle/Idle Wells 2000/Idle Wells Master
 CalWims)
 _____ WSS Code or Status Changes

Map Work: _____

☒ Follow Up: July 2015
☒ Hold for: Rework

_____ Scan Records _____

Perforations were acidized.

Records Approved 09/20/13 JI

RECEIVED

SEP - 9 2013

DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCESSUBMIT IN DUPLICATE
RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

NO.	LETTER	LAND NO.	114	121
				Culms 9/13 pd

HISTORY OF OIL OR GAS WELLOperator: Aera Energy LLCField: Cat CanyonCounty: Santa BarbaraWell Name: FIELD FEE G2Sec: 32T: 9NR: 32WSB: B.&M.Aera Well Name: FLDG2API Number: 08322694Name Mark DuFreneTitle: AGENT

(Person submitting report)

(President, Secretary, or Agent)

Date: 09/05/2013Signature: Misty Rogers10000 Ming Ave., Bakersfield, CA 93311

(Address)

(Telephone Number)

History must be complete in all details. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing test and initial production data.

KB to GL: 12.50 ft

07/02/2013

Depth: Description:
MIRU and spot equipment.

07/03/2013

Depth: Description:
Travel to location and perform JSP.
Bled off well. Unload rod equipment. POOH and L/D (30) 7/8" rods. R/D floor. N/U BOPE. R/U floor. Unland donut. POOH w/ 2-7/8" tbg breaking straps and stainless steel tubular. Load up tbg equipment. N/D BOPE. Install flange. CWI.

07/08/2013

Depth: Description:
Travel to location and perform JSP.
Bled off well. N/D flange. R/U work floor. M/U 9-5/8" scraper and RIH to 460'. POOH and L/D scraper. M/U 9-5/8" 36# cast iron bridge plug. RIH and set at 450'. POOH and L/D 28 joints of 2-7/8" tbg. Load tbg equipment. R/D floor. N/D BOPE. Install flange. CWI.

Plug Report

ASSEMBLY:	PLUG	BORE:	00	TOP:	450.00						
INSTALL DATE:	07/08/2013	PULL DATE:		BOTTOM:	451.66						
		CEMENTED:	N	PARALLEL?:	N						
COMPONENT:		JOINTS:	SIZE:	WEIGHT:	SLOT/GA:	DEN:	GRADE:	THREADS:	TOP:	LENGTH:	BOTTOM:
Bridge Plug			9.23	36.00			K-55	LT&C	450.00	1.66	451.66

07/09/2013

Depth: Description:
Travel to location and perform JSP. RDMO.



NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
195 S Broadway, Suite 101 Orcutt, CA 93455 - 4655

PERMIT TO CONDUCT WELL OPERATIONS

No. **P 313-0250**

<u>Old</u>	<u>New</u>
128	128
FIELD CODE	
06	06
AREA CODE	
POOL CODE	

Orcutt, California
May 31, 2013

Mark Du Frene, Agent
Aera Energy LLC (A0610)
66893 Sargent Canyon Rd.
San Ardo, CA 93450

Your proposal to **Rework** well "**Field Fee**" **G2**, A.P.I. No. **083-22694**, Section **32**, T. **09N**, R. **32W**, **SB B. & M.**, **Cat Canyon** field, **East** area, -- pool, **Santa Barbara** County, dated **5/10/2013**, received **5/15/2013** has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. The well **must** be securely capped at the surface.
2. No program changes are **made without** prior Division approval.
3. A Notice of Intent is required prior to **resuming** operations.
4. This well may not be suspended for **more than two years** without Division approval.

NOTE:

1. The proposed **bridge** plug at **455'** does not fulfill the requirements of this division for the abandonment of the lower portion of the well.

Blanket Bond
cc: Santa Barbara County
Misty Rogers

Engineer Ross Brunetti
Office (805) 937-7246

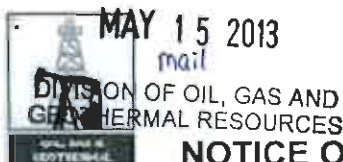
RB:cb

Tim Kustic
State Oil and Gas Supervisor

By 
Patricia A. Abel, District Deputy

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal, and local laws, regulations, and ordinances.

RECEIVED



RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

FOR DIVISION USE ONLY		
Bond	Forms	
	OGD114	OGD121
Blanket	CWIMS	5/3 PA

NOTICE OF INTENTION TO REWORK / REDRILL WELL

Detailed instructions can be found at: www.conservation.ca.gov/dog/

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework/redrill well _____, Field Fee G2, API 083-22694
(circle one)

Sec. 32, T. 9N, R. 32W, SB B. & M., Cat Canyon Field, Santa Barbara County.

The complete casing record of the well(present hole), including plugs and perforations, is as follows:
(Attach wellbore schematics diagram also.)

The total depth is 2960 feet. The effective depth is 2848.47 feet.

Present completions zone _____ Anticipated completion _____

Present zone pressure N/A psi; New zone pressure N/A psi;

Is this a critical well as defined in the California Code of Regulations, Title 14, to Section 1720(a) ☐ YES ☒ NO

For redrilling or deepening only, is a California Environmental Quality Act (CEQA) document required by a local agency? ☐ YES ☒ NO If yes, see next page.

The proposed work is as follows: (A complete program is preferred and may be attached.)

Temporarily plug back well Set BP

If well is to be redrilled or deepened, show proposed coordinates (from surface location) and true vertical depth at total depth: _____ feet. _____ (Direction) and _____ feet. _____ (Direction)

Will the Field and/or Area change: ☐ YES ☒ NO If yes, specify New Field: _____ New Area: _____

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator <u>Aera Energy LLC</u>		<u>P313-0250</u>	
Address <u>P.O. Box 11164</u>		City <u>Bakersfield, CA.</u>	Zip Code <u>93389-1164</u>
Name of Person Filing Notice Agent	Telephone Number <u>(661) 665-5294</u>	Signature <u>Misty Rogers</u>	Date <u>5/10/2013</u>
Individual to contact for technical questions:	Telephone Number	E-Mail Address	

This notice and an indemnity or cash bond must be filed, and approval given, before the workover brings. (See the reverse side for bonding information.) If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.



Aera Energy, LLC

10000 Ming Ave.
Bakersfield, CA 93311

Workover Permit Application

5/10/2013 8:41:54AM

Legal Well Name : FIELD FEE G2

Well Type : Producer

API Number 0408322694

DOG Field : East Cat Canyon

Lease : Field - 51711

Section : 32

Aera Well Name: FLDG2

Engineer : JT211585

Top of Fill : *Towne*

Township 9N

Datum : GROUND LEVEL

Datum Elevation : 874.04

Datum to GL : 0.00

Range : 32W

Wellbore Configuration:

Wellbore #	Kick-Off Depth	Kicked From	Kick-Off Date	PBTMD	TMD
00	0	--None--	02/02/2012	2848	2960
Job Type : WORKOVER			Objective : Temporarily plug back well		

Casing:		Wellbore#: 00				TOP: 13				BOTTOM: 93			
ASSEMBLY:		20" Conductor Casing Pipe				PULL DATE:				PARALLEL?: N			
INSTALL DATE:		02/01/2012											
COMPONENT:		COUNT:	SIZE:	WEIGHT:	SLOT/GA:	DENSITY:	GRADE:	THREADS:	TOP:	LENGTH:	BOTTOM:		
Casing		1	20	90			Sch20	Plain End	13	80	93		
Casing:		Wellbore#: 00											
ASSEMBLY:		13 3/8" Casing				TOP: 13				BOTTOM: 581			
INSTALL DATE:		02/03/2012				PULL DATE:				PARALLEL?: N			
COMPONENT:		COUNT:	SIZE:	WEIGHT:	SLOT/GA:	DENSITY:	GRADE:	THREADS:	TOP:	LENGTH:	BOTTOM:		
Casing		14	13	55			K-55	BT&C	13	529	542		
Casing Joint with Insert Valve or Baffle		1	13						542	0	542		
Casing		1	13	55			K-55	BT&C	542	39	580		
Casing Guide Shoe		1	13						580	1	581		
Casing:		Wellbore#: 00											
ASSEMBLY:		9 5/8" Casing				TOP: 12				BOTTOM: 2605			
INSTALL DATE:		02/09/2012				PULL DATE:				PARALLEL?: N			
COMPONENT:		COUNT:	SIZE:	WEIGHT:	SLOT/GA:	DENSITY:	GRADE:	THREADS:	TOP:	LENGTH:	BOTTOM:		
Casing		60	10	36			K-55	LT&C	12	2544	2556		
Casing Float Collar		1	10						2556	2	2558		
Casing		1	10	36			K-55	LT&C	2558	45	2603		
Casing Float Shoe		1	10						2603	2	2605		
Casing:		Wellbore#: 00											
ASSEMBLY:		5 1/2" Production Liner				TOP: 2404				BOTTOM: 2938			
INSTALL DATE:		02/17/2012				PULL DATE:				PARALLEL?: N			
COMPONENT:		COUNT:	SIZE:	WEIGHT:	SLOT/GA:	DENSITY:	GRADE:	THREADS:	TOP:	LENGTH:	BOTTOM:		
Liner Seal Adaptor		1	6					LT&C	2404	9	2414		
Liner Landing Nipple		1	6					LT&C	2414	3	2416		
Liner Hanger		1	6						2416	5	2421		
Crossover		1	5						2421	1	2423		
Casing		10	6	16			K-55	LT&C	2423	426	2849		
Liner Latch Collar		1	6					LT&C	2849	1	2850		
Casing		1	6	16			K-55	LT&C	2850	43	2893		
Liner Float Collar		1	6					LT&C	2893	1	2894		
Casing		1	6	16			K-55	LT&C	2894	42	2936		
Liner Float Shoe		1	6					LT&C	2936	2	2938		
Casing:		Wellbore#: 00											
ASSEMBLY:		5 1/2" Production Liner				TOP: 1583				BOTTOM: 2320			
INSTALL DATE:		09/18/2012				PULL DATE:				PARALLEL?: N			
COMPONENT:		COUNT:	SIZE:	WEIGHT:	SLOT/GA:	DENSITY:	GRADE:	THREADS:	TOP:	LENGTH:	BOTTOM:		
Liner Seal Adaptor		1	10					LT&C	1583	5	1588		
Casing		2	6	15			K-55		1588	57	1645		
Liner Wire Wrapped Screens		15	6	16			0 K-55		1645	567	2212		
Casing		3	6	15			K-55		2212	107	2319		
Liner Guide Shoe, Spade, Bull Plug		1	6						2319	1	2320		
Casing:		Wellbore#: 00											
ASSEMBLY:		5 1/2" Production Liner				TOP: 461				BOTTOM: 1153			
INSTALL DATE:		02/08/2013				PULL DATE:				PARALLEL?: N			
COMPONENT:		COUNT:	SIZE:	WEIGHT:	SLOT/GA:	DENSITY:	GRADE:	THREADS:	TOP:	LENGTH:	BOTTOM:		
Liner Seal Adaptor		1	10					LT&C	461	2	463		
Crossover		1	7						463	2	465		
Casing		1	6	15			K-55		465	37	502		
Slotted Liner		3	6	15			K-55		502	106	608		
Liner Wire Wrapped Screens		10	6	16			0 K-55		608	352	960		
Casing		2	6	15			K-55		960	24	984		
Slotted Liner		4	6	15			K-55		984	167	1151		
Liner Guide Shoe, Spade, Bull Plug		1	6						1151	2	1153		
Plug :		Wellbore# : 00				Cemented : Y							
ASSEMBLY:		Cement Plug				TOP: 1171				BOTTOM: 1,243.00			
						INSTALL DATE : 01/24/2013							
COMPONENT :		Pipe Pull Rate:		Top:	Bottom:	Comments:							
Plug :		Wellbore# : 00				Cemented : Y							
ASSEMBLY:		Cement Plug				TOP:				BOTTOM:			
						INSTALL DATE :							
COMPONENT :		Pipe Pull Rate:		Top:	Bottom:	Comments:							
ABANDONMENT													

Perforations:								
WB #	INSTALL DATE :	TOP:	BOTTOM:	SIZE:	DENSITY:	PERF TYPE :	PERF STATUS:	CHARGE DESCRIPTION:
00	01/28/2013	641	651	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	641	651	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	641	651	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	641	651	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	660	680	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	660	680	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	660	680	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	660	680	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	760	764	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	760	764	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	760	764	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	760	764	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	811	813	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	811	813	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	811	813	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	811	813	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	813	833	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	813	833	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	813	833	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	813	833	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	894	904	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	894	904	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	894	904	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	894	904	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	914	923	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	914	923	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	914	923	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	914	923	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	929	935	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	929	935	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	929	935	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	929	935	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	935	955	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	935	955	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	935	955	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	01/28/2013	935	955	0.4700	5.00	PERFORATED	OPEN	4505 HyperJet RDX
00	09/06/2012	1665	1675	0.5700	4.00	PERFORATED	CLOSED	4505 HyperJet RDX
00	09/06/2012	1675	1695	0.5700	4.00	PERFORATED	CLOSED	4505 HyperJet RDX
00	09/06/2012	1700	1705	0.5700	4.00	PERFORATED	CLOSED	4505 HyperJet RDX
00	09/06/2012	1705	1725	0.5700	4.00	PERFORATED	CLOSED	4505 HyperJet RDX
00	09/06/2012	1784	1794	0.5700	4.00	PERFORATED	CLOSED	4505 HyperJet RDX
00	09/06/2012	1794	1814	0.5700	4.00	PERFORATED	CLOSED	4505 HyperJet RDX
00	09/06/2012	1888	1908	0.5700	4.00	PERFORATED	CLOSED	4505 HyperJet RDX
00	09/06/2012	1890	1898	0.5700	4.00	PERFORATED	CLOSED	4505 HyperJet RDX
00	09/06/2012	1925	1935	0.5700	4.00	PERFORATED	CLOSED	4505 HyperJet RDX
00	09/06/2012	1935	1955	0.5700	4.00	PERFORATED	CLOSED	4505 HyperJet RDX
00	09/06/2012	1990	2005	0.5700	4.00	PERFORATED	CLOSED	4505 HyperJet RDX
00	09/06/2012	2030	2040	0.5700	4.00	PERFORATED	CLOSED	4505 HyperJet RDX
00	09/06/2012	2091	2100	0.5700	4.00	PERFORATED	CLOSED	4505 HyperJet RDX
00	09/06/2012	2112	2121	0.5700	4.00	PERFORATED	CLOSED	4505 HyperJet RDX
00	09/06/2012	2133	2144	0.5700	4.00	PERFORATED	CLOSED	4505 HyperJet RDX
00	09/06/2012	2166	2181	0.5700	4.00	PERFORATED	CLOSED	4505 HyperJet RDX

Work Plan :

Planner : John Towne, Contact @ 661-978-4414 or
661-665-5693

Plan Title : Prepare well for long term idle.

STEP

Operations

4

ISOLATE CARREAGA COMPLETION: RIH w/ a Weatherford casing scraper to liner top (positive for 9-5/8" 36#). POOH and LD scraper RIH w/ a 9-5/8" 36# Weatherford DB-10 cast iron bridge plug. Set plug just over liner top at +/- 455'. Unlatch from BP and circulate hole full of water. POOH and LD tubing. Uninstall BOP and install 7-1/16" 3K companion flange on tubing head. RD single workover rig. Roustabout crew will build berm around cellar, install wellhead guard, and clean location.

**DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
CHECK LIST - RECORDS RECEIVED AND WELL STATUS**

COMPANY Aera Energy LLC WELL NO "Field Fee" G2
 API NO. 083-22691 SEC. 32, T. 9N, R. 32W, S.B. B.&M.
 COUNTY Santa Barbara FIELD Cat Canyon

<u>RECORDS RECEIVED</u>	<u>DATE</u>	<u>STATUS</u>
Direction Survey		<u>idle water source well.</u>
Well Summary (form OG 100)		(Date)
History (form OG 103)	<u>05-10-13</u>	<u>Engineer's Check List</u>
Core Record and/or SWS		<u>Summary, History, & Core Record</u>
Other:		<u>Directional Survey</u>
Electric logs:		<u>Logs</u>
		<u>Operator's Name</u>
		<u>Signature</u>
		<u>Well Designation</u>
		<u>Location</u>
		<u>GPS Location Received</u>
		<u>Entered in Computer</u>
		<u>Notice</u>
		<u>"T" Reports</u>
		<u>Casing Record</u>
		<u>Plugs (Sfc. Plg Date)</u>
		<u>Final Sfc. Insp Date</u>
		<u>Production/Injection</u>

Clerical Check List

Form OGD121
 Location change (OG165)
 Elevation change (GD165)
 Final Letter (OG159)
 Release of Bond (OGD150)
 Abd _____ in WSS
 Notice of Records Due (OGD170)
 Request: 2 copies

Water analyses

Scan Records

Foxen perfs were acidized

Computer

CalWims Drill Card
Idle Well Status Change
 (F: Idle/Idle Wells 2000/Idle Wells Master
 CalWims)
WSS Code or Status Changes

Map Work:

Follow Up: New NOI

Hold for:

Records Approved 5/30/13 RB

SUBMIT IN DUPLICATE
RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Aera Energy LLC

Field: Cat Canyon

County: Santa Barbara

Well Name: FIELD FEE G2

Sec: 32

T: 9N

R: 32W

SB: B.&M.

Aera Well Name: FLDG2

API Number: 08322694

Name Mark DuFrene

Title : AGENT

(Person submitting report)

(President, Secretary, or Agent)

Date: 05/07/2013

Signature: Misty Rogers

10000 Ming Ave., Bakersfield, CA 93311

(Address)

(Telephone Number)

History must be complete in all details. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing test and initial production data.

KB to GL: 12.50 ft

01/21/2013

Depth:

Description:

MOVE EQUIPMENT. SPOT PUMP AND ROLL BIN.

01/22/2013

Depth:

Description:

TRAVEL TO LOCATION

HOLD SAFETY MEETING AND CONSTRUCT JSP FOR JOB TASK

WAIT ON CRANE TO UNLOAD EQUIPMENT AND RIG MAT

MIRU. R/U PUMP. BLEED OFF WELL. R/U ROD EQUIPMENT. UNSEAT PUMP. BREAK POLISH ROD. INSTALL ROD TABLE. POOH AND L/D 70 7/8" RODS. N/D PRODUCTION TEE. N/U BOPE. SECURE WELL.

01/23/2013

Depth:

Description:

TRAVEL TO LOCATION. HOLD SAFETY MEETING AND CONSTRUCT JSP.

R/U FLOOR. UNLOAD AND R/U TBG EQUIPMENT. UNLOAD WESTERN WIRELINE EQUIPMENT. R/U WESTERN WIRELINE SHEAVE. ATTEMPTED TO UNLAND DONUT. OFFSET DONUT. R/D TBG EQUIPMENT AND FLOOR. N/D BOPE. UNLAND DONUT AND L/D. STRIP ON BOPE. R/U FLOOR AND TBG EQUIPMENT. POOH W/ TBG. BROKE STAINLESS STEEL BANDS AND SPOOLING TUBULAR TBG. R/D WESTERN WIRELINE. UNLOAD 11" BOPE AND 7/16" BAG. M/U AND RIH W/ 30 2-3/8" TBG & 4 STANDS FROM DERRICK. SECURE WELL.

Operator: Aera Energy LLCField: Cat CanyonCounty: Santa BarbaraWell Name: FIELD FEE G2Sec: 32T: 9NR: 32WSB: B.&M.Aera Well Name: FLDG2API Number: 08322694Name Mark DuFreneTitle: AGENT

(Person submitting report)

(President, Secretary, or Agent)

Date: 05/07/2013

01/24/2013

Depth: Description:
 TRAVEL TO LOCATION. HOLD SAFETY MEETING AND CONSTRUCT JSP.
 BLEED OFF WELL. OPEN BOPE. RIH W/ 2-7/8" TBG TO 2300'. R/D KING SWIVEL & CIRCULATED 20'. R/D KING SWIVEL. SPOT HALLIBURTON & RUN GROUND & FLOOR LINES. R/U HOSES ON PUMP. FILLED BACKSIDE W/ 4 BBLS OF H2O. TESTED HALLIBURTON LINES TO 4300 PSI. PUMPED 44.8 CF (28.7 SK) CEMENT @ 15.6#/GAL FROM 2320' - 1989', 3 BBLS/MIN FOR 9 TOTAL @ 100 PSIG. PUMP DISPLACEMENT 3 BBLS/MIN FOR 18.5 TOTAL @ 250 PSIG. PUMPED 2ND STAGE OF 49.7 CF (31.9 SK) CEMENT @ 15.6#/GAL FROM 1989'-1617', 3.3 BBLS/MIN FOR 9.9 TOTAL @ 200 PSIG. PUMP DISPLACEMENT 3.3 BBLS/MIN FOR 17.9 BBLS H2O @ 260 PSIG. PUMPED 3RD STAGE OF 158.8 CF (101.8 SK) CEMENT @ 15.6#/GAL FROM 1617'-1243', 3 BBLS/MIN FOR 29 TOTAL @ 125 PSIG. PUMP DISPLACEMENT 3.3 BBLS/MIN FOR 34.5 BBLS H2O @ 260 PSIG. PUMPED 4TH STAGE OF 70.8 CF (45.5 SK) CEMENT @ 15.6#/GAL FROM 1243'-1080', 3 BBLS/MIN FOR 13.6 TOTAL @ 150 PSIG. PUMP DISPLACEMENT 3 BBLS/MIN FOR 13.6 BBLS H2O @ 150 PSIG. R/D HALLIBURTON. POOH W/ TWO STANDS. SECURE WELL.
 For each cmt stage pumped volume listed, pull up to next depth and reverse circulated tbg clean. Cmt stages were kept to maximum of 400' long b/c plugback was performed with rig and tbg.

SLURRY:	DISPLACEMENT	SLURRY TOP:	SLURRY BASE:	FOAMED?: No
SLURRY NAME:	FRESH WATER	CEMENT CLASS:	CEMENT SACKS:	
SLURRY DEN (ppg):	8.40	SLURRY WTR (gal/sk94):	0.000	SLURRY YIELD (ft ³ /sk): 0.0000
SLURRY PUMPED (bbl):	0.0	SLURRY PLACED (bbl):		SLURRY RETURNS (bbl): 0.0

01/25/2013

Depth: Description:
 TRAVEL TO LOCATION. HOLD SAFETY MEETING AND CONSTRUCT JSP.
 BLEED OFF WELL. OPEN BOPE. RIH AND TAG CEMENT PLUG @ 1171.36'. PULL HIGH AND WAIT ON DOGGR WITNESS. RIH AND TAG CEMENT FOR DOGGR AT 1171.36'. POOH AND L/D 30 JOINTS OF 2-3/8" TBG & 30 JOINTS OF 2-7/8" TBG. N/D CIRCULATING HEAD, 7/16 BOPE & CAMERON C. INSTALL 11" BOPE. SECURE WELL.

01/28/2013

Depth: Description:
 TRAVEL TO LOCATION. HOLD SAFETY MEETING & CONSTRUCT JSP.
 OPEN WELL. FILL CSG. R/U UNITED TESTER. PRESSURE TEST @ 250 PSI. TESTED GOOD. PRESSURE TESTED @ 1000 PSI FOR 10 MIN. TESTED GOOD. R/D UNITED TESTER. INSTALL 11" BOPE TO 7/16 X-OVER FLANGE FOR LUBRICATOR. R/U CRANE AND MOVE HYDRAL BAG. SPOT HALLIBURTON. R/U SCHLUMBERGER LUBRICATOR. PERFORATED 9-5/8" CSG W/ 1030 SHOTS FROM 641'-955' W/ 5 SPF @ 72 DEGREE PHASING (SHOT 5 SPF X 2 RUNS = 10 SPF). R/D SCHLUMBERGER. SECURE WELL.

01/29/2013

Depth: Description:
 TRAVEL TO LOCATION. HOLD SAFETY MEETING & CONSTRUCT JSP.
 BLEED OFF WELL. OPEN WELL. POOH W/ KILL STRING. N/D CIRCULATING HEAD. M/U & RIH W/ 9-5/8" 36# SCARPER. N/U CIRCULATING HEAD. CONTINUE TO RIH W/ TBG TO 955'. SCRAPE FROM 955' TO 658'. RIH TO BOTTOM AT 1170'. CIRCULATE 100 BBLS OF H2O. CHANGE OVER TO CSG. PUMP 100 BBLS OF H2O. POOH W/ TBG. N/D CIRCULATING HEAD. CONTINUE TO POOH W/ TBG. L/D 9-5/8" SCRAPER. N/U CIRCULATING HEAD. RIH W/ KILL STRING. SECURE WELL.

01/30/2013

Depth: Description:
 TRAVEL TO LOCATION. HOLD SAFETY MEETING & CONSTRUCT JSP.
 BLEED OFF AND OPEN WELL. POOH W/ KILL STRING. N/D CIRCULATING HEAD. N/U 11" FLANGE. M/U & RIH W/ 9-5/8" 36# CUPS. STRIP ON CIRCULATING HEAD & 11" FLANGE. CONTINUE TO RIH W/ TBG & CUPS TO 954'. R/U CAL-COAST. ACIDIZE PERFS FROM 928'-954' W/ STARTING PSI 250 @ 26 GALS/MIN & FINAL PSI 160 @ 116 GALS/MIN. ACIDIZE PERFS FROM 913'-922' W/ STARTING PSI 120 @ 90 GALS/MIN & FINAL PSI 100 @ 96 GALS/MIN. ACIDIZE PERFS FROM 892'-903' W/ STARTING PSI 150 @ 112 GALS/MIN & FINAL PSI 210 @ 90 GALS/MIN. ACIDIZE PERFS FROM 810'-832' W/ STARTING PSI 200 @ 121 GALS/MIN & FINAL PSI 210 @ 60 GALS/MIN. ACIDIZE PERFS FROM 759'-763' W/ STARTING PSI 200 @ 14 GALS/MIN & FINAL PSI 180 @ 43 GALS/MIN. ACIDIZE PERFS FROM 657'-679' W/ STARTING PSI 200 @ 22 GALS/MIN & FINAL PSI 180 @ 83 GALS/MIN. ACIDIZE PERFS FROM 640'-650' W/ STARTING PSI 150 @ 106 BBLS/MIN & FINAL PSI 200 @ 115 GALS/MIN. R/D CAL-COAST. POOH & L/D CUPS. RIH TO 1170' & PUMP 25 BBLS OF H2O. CHANGE OVER TO CSG. PUMP 20 BBLS OF H2O ABOVE 640'. SECURE WELL.

Operator: Aera Energy LLC

Field: Cat Canyon

County: Santa Barbara

Well Name: FIELD FEE G2

Sec: 32

T: 9N

R: 32W

SB: B.&M.

Aera Well Name: FLDG2

API Number: 08322694

Name Mark DuFrene

Title : AGENT

(Person submitting report)

(President, Secretary, or Agent)

Date: 05/07/2013

01/31/2013

Depth: Description:
TRAVEL TO LOCATION. HOLD SAFETY MEETING & CONSTRUCT JSP.
OPEN WELL. POOH W/ KILL STRING. MOVE IN 4 BAGS OF GRAVEL, HOPPER, & CSG W/ CRANE. RIH W/ KILL STRING. SECURE WELL.

02/01/2013

Depth: Description:
TRAVEL TO LOCATION. HOLD SAFETY MEETING & CONSTRUCT JSP.
OPEN WELL. SPOT CRANE & R/U CSG TONGS. M/U 217" OF 5-1/2" SEMI SLOTTED LINER & 314" OF 5-1/2" SCREEN LINER. RIH 7 STANDS & P/U GRAVEL PACK TOOL. R/D CSG TONGS. SPOT & R/U GRAVEL PACKING MACHINE. LOAD HOPPER W/ GRAVEL. SECURE WELL.

02/04/2013

Depth: Description:
TRAVEL TO LOCATION. HOLD SAFETY MEETING & CONSTRUCT JSP.
BLEED OFF WELL. OPEN BOPE. CONTINUE TO RIH W/ 5-1/2" LINER TO 1095'. JOHN TOWNE SUGGEST TO POOH & CIRCULATE BOTTOM. WEATHERFOR TO USE DIFFERENT SHOE. POOH TO CUP TOOL. R/U CASING TONGS. L/D LINER. R/D CSG TONGS. RIH W/ KILL STRING. SECURE WELL.

02/05/2013

Depth: Description:
TRAVEL TO LOCATION. HOLD SAFETY MEETING & CONSTRUCT JSP.
BLEED OFF WELL. OPEN BOPE. POOH W/ KILL STRING. M/U SAW TOOTH BOTTOM JT & RIH TO 1115'. M/U KING SWIVEL. CIRCULATE DOWN 20". PULL UP. CONTINUE TO CIRCULATE TO 1115'. TURN TBG AND WORK DOWN 20". CALL FOR POWER SWIVEL AND DRILL COLLARS. POOH W/ TBG. LEFT KILL STRING IN HOLE. SECURE WELL.

02/06/2013

Depth: Description:
TRAVEL TO LOCATION. HOLD SAFETY MEETING & CONSTRUCT JSP.
BLEED OFF WELL. POOH W/ KILL STRING. N/D CIRCULATING HEAD. M/U (4) 4" DRILL COLLARS & 8-3/4" DRILL BIT. N/U CIRCULATING HEAD. RIH W/ TBG. M/U POWER SWIVEL. MILL FROM 1115'-1170' WHILE PUMPING 5 LBS OF POLMER GEL EVERY 10'. GOT SAND RETURNS & MADE ONE CONNECTION. R/D POWER SWIVEL. POOH W/ TBG. N/D CIRCULATING HEAD. L/D DRILL COLLARS & BIT. RIH W/ KILL STRING.

02/07/2013

Depth: Description:
TRAVEL TO LOCATION. HOLD SAFETY MEETING & CONSTRUCT JSP.
BLEED OFF WELL. R/U CSG TONGS. P/U 5-1/2" 15.5# LINER. R/D CSG TONGS. R/U TBG TONGS. RIH & TAG @ 1150'. R/U KING SWIVEL. CIRUCLATE DOWN 4' TO 1154'. REVERSE CIRCULATE DOWN 4'. JOHN TOWNE APPROVED GRAVEL PACK FILTER @ 960'. R/D KING SWIVEL. R/U GRAVEL PACK MACHINE. POOH ABOVE PERFS. SECURE WELL.

02/08/2013

Depth: Description:
TRAVEL TO LOCATION. HOLD SAFETY MEETING AND CONSTRUCT JSP.
BLEED OFF WELL. RIH & SET 9-5/8" X 7" HYD/ADAPTER @ 460.95', 7" X 5-1/2" CROSS OVER @ 462.7', 5-1/2" 15.5# BLANK LINER FROM 464.57'-502', 5-1/2" 15.5# SEMI SLOTTED LINER FROM 502'-608.26', 5-1/2" 15.5# WIRE WARP SCREEN FROM 608.26'-960.44', 5-1/2" 15.5# BLANK LINER FROM 960.44'-983.97', 5-1/2" 15.5# SEMI SLOTTED LINER FROM 983.97'-1150.65', 5-1/2" CURCULATING SHOE AT 1150.65' W/ BOTTOM AT 1153'. CONTINUE TO RIH W/ TBG. R/U GRAVEL PACK MACHINE. GRAVEL PACK LINER. POOH ABOVE LINER. SECURE WELL.

Operator: Aera Energy LLCField: Cat CanyonCounty: Santa BarbaraWell Name: FIELD FEE G2Sec: 32T: 9NR: 32WSB: B.&M.Aera Well Name: FLDG2API Number: 08322694Name Mark DuFreneTitle : AGENT

(Person submitting report)

(President, Secretary, or Agent)

Date: 05/07/2013

Casing String									
ASSEMBLY:	5 1/2" Production Liner			BORE: 00			TOP: 460.95		
INSTALL DATE:	02/08/2013			PULL DATE:			BOTTOM: 1,153.00		
COMPONENT:	TOP:	BOTTOM:	JOINTS:	SIZE:	WEIGHT:	GRADE:	THREADS:	SLOTS OR PRE-PREFED CASING	
								SIZE:	DENSITY: LENGTH: SPACING:
Liner Seal Adaptor	460.95	462.70	1	9.625			LT&C		
Crossover	462.70	464.57	1	7.000					
Casing	464.57	502.00	1	5.500	15.00	K-55			
Slotted Liner	502.00	608.26	3	5.500	15.00	K-55			
Liner: Wire Wrapped Screens	608.26	960.44	10	5.500	15.50	K-55		0	
Casing	960.44	983.97	2	5.500	15.00	K-55			
Slotted Liner	983.97	1,150.65	4	5.500	15.00	K-55			
Liner Guide Shoe, Spade, Bull Plug	1,150.65	1,153.00	1	5.500					

02/11/2013

Depth: Description:

TRAVEL TO LOCATION. HOLD SAFETY MEETING & CONSTRUCT JSP.

BLEED OFF WELL. POOH & L/D 8 JTS OF TBG. N/D CIRCULATING HEAD & X-OVER. L/D PACKING TOOL. N/D 11" BOPE & INSTALL C CAMRON, 7/16" BOPE & 7/16" BAG. P/U & RIH W/ 2-7/8" 6.5# TBG & 2" INSERT PUMP. INSTALL PROBE TOOL. R/U WESTERN WIRELINE. CONTINUE TO RIH & STRAP TUBULAR TBG W/ PUMP @ 960' & PROBE TOOL @ 930'. R/D WESTERN WIRELINE. N/D 7/16" BAG AND 7/16" BOPE. LAND DONUT. INSTALL PRODUCTION TEE. SECURE WELL.

02/12/2013

Depth: Description:

TRAVEL TO LOCATION. HOLD SAFETY MEETING & CONSTRUCT JSP.

BLEED OFF WELL. OPEN WELL. RDMO RIG & EQUIPMENT.

Perforation Report							
BORE:	DATE	ASSEMBLY:	OPENING TYPE:	TOP:	BOTTOM:	DENSITY:	SIZE:
00	01/28/2013	9 5/8" Casing	PERFORATED	641.00	651.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	641.00	651.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	660.00	680.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	660.00	680.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	760.00	764.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	760.00	764.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	811.00	813.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	811.00	813.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	813.00	833.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	813.00	833.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	894.00	904.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	894.00	904.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	914.00	923.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	914.00	923.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	929.00	935.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	929.00	935.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	935.00	955.00	5.00	0.47
00	01/28/2013	9 5/8" Casing	PERFORATED	935.00	955.00	5.00	0.47



NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
195 S Broadway, Suite 101 Orcutt, CA 93455-4655
Phone: (805) 937-7246 Fax: (805) 937-0673

No. T 313-0073

REPORT ON OPERATIONS

Mark Du Frene
Aera Energy LLC (A0610)
66893 Sargent Canyon Rd.
San Ardo, CA 93450

Orcutt, California
February 06, 2013

Your operations at well "Field Fee" G2, A.P.I. No. 083-22694, Sec. 32, T. 09N, R. 32W, SB B.&M., Cat Canyon field, in Santa Barbara County, were witnessed on 1/25/2013, by Jon Iverson, a representative of the supervisor.

The operations were performed for the purpose of plugging back the lower portion of the well.

DECISION: **APPROVED**

Jl:pd

cc: Santa Barbara County
Well file

Tim Kustic

State Oil and Gas Supervisor

By



Patricia A. Abel, District Deputy

313-0073 ✓

CEMENTING/PLUGGING MEMO

Operator Aera Energy LLC Well No. "Field Fee" G2
 API No. 083-22694 Sec. 32 T. 09N R. 32W S.B. B&M
 Field Cat Canyon County Santa Barbara On 01/25/2013
 Mr. / Ms. Jon Iverson representative of the supervisor, was present from 0900 to 0930

There were also present John Towne - Aera Energy Engineer

Casing record of well: _____

The operations were performed for the purpose of T(2)

☒ The plugging/cementing operations as witnessed and reported are approved.

☐ The location and hardness of the cement plug @ _____ are approved.

Hole size: _____ " fr. _____ ' to _____ ' & _____ " to _____ '

Casing				Cemented			Top of Fill		Squeezed Away	Final Pressure	Perforations
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			

Casing/tubing recovered: _____ " Shot/cut at _____ ' _____ ' _____ ' Pulled fr. _____ ' ;
 _____ " Shot/cut at _____ ' _____ ' _____ ' Pulled fr. _____ ' .

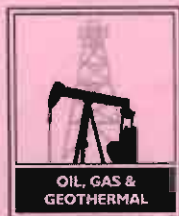
Junk (in hole): _____

Clean Out Depth: 2,324 ' Witnessed by Reported

Mudding	Date	bbbs	Displaced	Poured	Fill	Engineer

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Volume	MO & Depth	Time	Engineer	Depth	Wt/Sample	Date & Time	Engineer
01/24	44.8 cf	tbgs @ 2,324'		reported	etoc 1,988'			
01/24	49.7 cf	tbgs @ 1,989'		reported	etoc 1,616'			
01/24	158.8 cf	tbgs @ 1,617'		reported	etoc 1,234'			
01/24	70.8 cf	tbgs @ 1,243'		reported	1,171'	tbgs all wt	01/25 @ 0912	Jlverson

Cementing Details: _____



NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
195 S Broadway, Suite 101 Orcutt, CA 93455 - 4655

PERMIT TO CONDUCT WELL OPERATIONS

No. P 312-0574

<u>Old</u>	<u>New</u>
128	128
FIELD CODE	
06	06
AREA CODE	

POOL CODE

Orcutt, California
December 18, 2012

Mark Du Frene, Agent
Aera Energy LLC (A0610)
66893 Sargent Canyon Rd.
San Ardo, CA 93450

Your proposal to **Rework** well "**Field Fee**" G2, A.P.I. No. **083-22694**, Section **32**, T. **09N**, R. **32W**, **SB B. & M.**, **Cat Canyon** field, **East** area, -- pool, **Santa Barbara** County, dated **12/6/2012**, received **12/10/2012** has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirement: Class II **2M**, with hydraulic controls, on the **9 5/8"** casing.
2. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
3. No program changes are made without prior Division approval.

NOTE:

1. Unlined sumps containing harmful water are not to be located over freshwater bearing aquifers.
2. Hole fluid disposal must comply with Regional Water Quality Control Board regulations.

Blanket Bond

cc: Santa Barbara County
Well file

Engineer Ross Brunetti
Office (805) 937-7246

RB:pd

Tim Kustic
State Oil and Gas Supervisor

By Patricia A. Abel
Patricia A. Abel, District Deputy

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal, and local laws, regulations, and ordinances.

RECEIVED



DEC 10 2012

NA: RESOURCES AGENCY OF CALIFORNIA
PARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

FOR DIVISION USE ONLY		
Bond	Forms	
	OGD114	OGD121
Blanket	CWIS	pd

NOTICE OF INTENTION TO REWORK / REDRILL WELL

Detailed instructions can be found at: www.conservation.ca.gov/dog/

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our

intention to rework/redrill well Field Fee G2, API 083-22694
(circle one)

Sec. 32, T. 9N, R. 32W, SB B. & M., Cat Canyon Field, Santa Barbara County.

The complete casing record of the well(present hole), including plugs and perforations, is as follows:
(Attach wellbore schematics diagram also.)

*Pool OO
well type WS*

The total depth is 2960 feet. The effective depth is 2848 feet.

Present completions zone _____ Anticipated completion _____

Present zone pressure N/A psi; New zone pressure N/A psi;

Is this a critical well as defined in the California Code of Regulations, Title 14, to Section 1720(a) ☐ YES ☒ NO

For redrilling or deepening only, is a California Environmental Quality Act (CEQA) document required by a local agency? ☐ YES ☒ NO If yes, see next page.

The proposed work is as follows: (A complete program is preferred and may be attached.)

Compl. For Carreaga Water Prod.

If well is to be redrilled or deepened, show proposed coordinates (from surface location) and true vertical depth at total depth: _____ feet. _____ feet. _____ feet.
(Direction) (Direction) (Direction)

Will the Field and/or Area change: ☐ YES ☒ NO If yes, specify New Field: _____ New Area: _____

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator <u>Aera Energy LLC</u>				<u>P312-0574</u>	
Address <u>P.O. Box 11164</u>		City <u>Bakersfield, CA.</u>		Zip Code <u>93389-1164</u>	
Name of Person Filing Notice , Agent		Telephone Number (661) 665-5294		Signature <i>Christy Rager</i>	
Individual to contact for technical questions:		Telephone Number		Date <u>12/6/2012</u>	
		E-Mail Address			

This notice and an indemnity or cash bond must be filed, and approval given, before the workover brings. (See the reverse side for bonding information.) If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.



Aera Energy LLC

10000 Ming Ave., B
Kersfield, CA 93311

Workover Permit Application

12/6/2012 5:16:01 AM

Legal Well Name: FIELD FEE G2

Well Type: Producer

API#: 083-22694

DOG Field:

Lease: Field - 51711

Section: 32

Aera Well Name: FLDG2

Engineer: *Towne*

Top of Fill:

Township: 09N

Datum: Kelly Bushing

Datum Elevation: 886.54

Datum to GL: 12.50

Range: 32W

Wellbore Configuration:

DFW Bore	Enterprise Bore	Kick-Off Depth	Kicked from	Kick-Off Date	PBTMD	TMD	Rig_Release Date
OH	0000	0		02-Feb-12	2,848	2,960	18-Feb-12

Job Type: COMPLETION

Objective: Compl new well-gravel pack

Date Issued: 12/5/2012

Current Configuration

Casing:	Wellbore#:	String Code:	Cemented:
	OH(00)	C1	Y

ASSEMBLY:	20" Conductor Pipe	TOP:	0	BOTTOM:	93			
DETAIL: INSTALL DATE: 2/1/2012								
COMPONENT:	SIZE:	WEIGHT:	SLOT/ GAUGE:	DENSITY:	GRADE: THREADS:	TOP:	BOTTOM:	SLOT STATUS:
KB to Assembly Top	0.000	0.00	0.000	0		0	13	
Casing: Blank	20.000	90.00	0.000	0	Sch20 Plain End	13	93	

Casing:	Wellbore#:	String Code:	Cemented:
	OH(00)	C2	N

ASSEMBLY:	13 3/8" Casing	TOP:	0	BOTTOM:	581			
DETAIL: INSTALL DATE: 2/3/2012								
COMPONENT:	SIZE:	WEIGHT:	SLOT/ GAUGE:	DENSITY:	GRADE: THREADS:	TOP:	BOTTOM:	SLOT STATUS:
KB to Assembly Top	0.000	0.00	0.000	0		0	13	
Casing: Blank	13.375	54.50	0.000	0	K-55 BT&C	13	542	
Casing Insert Valve or Baffle	13.375	0.00	0.000	0		542	542	
Casing: Blank	13.375	54.50	0.000	0	K-55 BT&C	542	580	
Casing Guide Shoe	13.375	0.00	0.000	0		580	581	

Casing:	Wellbore#:	String Code:	Cemented:
	OH(00)	C3	N

ASSEMBLY:	9 5/8" Casing	TOP:	0	BOTTOM:	2,605			
DETAIL: INSTALL DATE: 2/9/2012								
COMPONENT:	SIZE:	WEIGHT:	SLOT/ GAUGE:	DENSITY:	GRADE: THREADS:	TOP:	BOTTOM:	SLOT STATUS:
Casing: Blank	9.625	36.00	0.000	0	K-55 LT&C	0	2,556	
Casing Float Collar	9.625	0.00	0.000	0		2,556	2,558	
Casing: Blank	9.625	36.00	0.000	0	K-55 LT&C	2,558	2,603	
Casing Float Shoe	9.625	0.00	0.000	0		2,603	2,605	

Liner:	Wellbore#:	String Code:	Cemented:
	OH(00)	L1	N

ASSEMBLY:	5 1/2" Production Liner	TOP:	1,593	BOTTOM:	2,330			
DETAIL: INSTALL DATE: 9/18/2012								
COMPONENT:	SIZE:	WEIGHT:	SLOT/ GAUGE:	DENSITY:	GRADE: THREADS:	TOP:	BOTTOM:	SLOT STATUS:
Liner Tie-back Seal Assembly	9.625	0.00	0.000	0	LT&C	1,593	1,598	

Liner:	Wellbore#: OH(00)			String Code: L1		Cemented: N			
ASSEMBLY:	5 1/2" Production Liner			TOP: 1,593		BOTTOM: 2,330			
DETAIL:	INSTALL DATE: 9/18/2012								
COMPONENT:	SIZE:	WEIGHT:	SLOT/ GAUGE:	DENSITY:	GRADE:	THREADS:	TOP:	BOTTOM:	SLOT STATUS:
Liner: Blank	5.500	15.00	0.000	0	K-55		1,598	1,655	
Liner: Wire Wrapped Screen	5.500	15.50	0.000	0	K-55		1,655	2,222	Open
Liner: Blank	5.500	15.00	0.000	0	K-55		2,222	2,329	
Liner Shoe	5.500	0.00	0.000	0			2,329	2,330	

Liner:	Wellbore#: OH(00)			String Code: L2			Cemented: N		
ASSEMBLY:	5 1/2" Production Liner			TOP: 2,404			BOTTOM: 2,938		
DETAIL:	INSTALL DATE: 2/17/2012								
COMPONENT:	SIZE:	WEIGHT:	SLOT/ GAUGE:	DENSITY:	GRADE:	THREADS:	TOP:	BOTTOM:	SLOT STATUS:
Liner Seal Adapter	5.500	0.00	0.000	0		LT&C	2,404	2,414	
Liner Landing Nipple	5.500	0.00	0.000	0		LT&C	2,414	2,416	
Liner Hanger	5.500	0.00	0.000	0			2,416	2,421	
Liner Crossover	5.000	0.00	0.000	0			2,421	2,423	
Liner: Blank	5.500	15.50	0.000	0	K-55	LT&C	2,423	2,849	
Liner Latch Collar	5.500	0.00	0.000	0		LT&C	2,849	2,850	
Casing: Blank	5.500	15.50	0.000	0	K-55	LT&C	2,850	2,893	
Liner Float Collar	5.500	0.00	0.000	0		LT&C	2,893	2,894	
Liner: Blank	5.500	15.50	0.000	0	K-55	LT&C	2,894	2,937	
Liner Float Shoe	5.500	0.00	0.000	0		LT&C	2,937	2,938	

Perforations:

STRING CODE:	INSTALL DATE:	TOP:	BOTTOM:	SIZE:	DENSITY:	PERF TYPE:	PERF STATUS:
C3	9/6/2012	1,665	1,675	0.5700	4.00	PERFORATED	Open
C3	9/6/2012	1,675	1,695	0.5700	4.00	PERFORATED	Open
C3	9/6/2012	1,700	1,705	0.5700	4.00	PERFORATED	Open
C3	9/6/2012	1,705	1,725	0.5700	4.00	PERFORATED	Open
C3	9/6/2012	1,784	1,794	0.5700	4.00	PERFORATED	Open
C3	9/6/2012	1,794	1,814	0.5700	4.00	PERFORATED	Open
C3	9/6/2012	1,888	1,908	0.5700	4.00	PERFORATED	Open
C3	9/6/2012	1,890	1,898	0.5700	4.00	PERFORATED	Open
C3	9/6/2012	1,925	1,935	0.5700	4.00	PERFORATED	Open
C3	9/6/2012	1,935	1,955	0.5700	4.00	PERFORATED	Open
C3	9/6/2012	1,990	2,005	0.5700	4.00	PERFORATED	Open
C3	9/6/2012	2,030	2,040	0.5700	4.00	PERFORATED	Open
C3	9/6/2012	2,091	2,100	0.5700	4.00	PERFORATED	Open
C3	9/6/2012	2,112	2,121	0.5700	4.00	PERFORATED	Open
C3	9/6/2012	2,133	2,144	0.5700	4.00	PERFORATED	Open
C3	9/6/2012	2,166	2,181	0.5700	4.00	PERFORATED	Open

Work Plan:

Planner: John Towne

PLAN TITLE Compl. for Carreaga Water Prod

STEP OPERATION

- ISOLATE SISQUOC COMPLETION: RIH w/ 2-3/8" tubing to liner PBTD (at +/- 2324') and tag. Clean out any fill with a foaming unit if necessary. MIRU cementers. Pick up 5' and pump an API Class G cement w/ 35% silica flour plug. Estimated theoretical plug volume is 318ft³ with an estimated plug top of 1085ft. Plug top must be no lower than 1255' (100' above Sisquoc S1B top) ✓

PLAN TITLE Compl. for Carreaga Water Prod**STEP OPERATION**

and no higher than 1085' (bottom of proposed liner).

- Sisquoc Top (S1B) - 1,355 ft MD
- Carreaga Bottom - 950 ft MD ✓
- 5-1/2" 15.5# liner PBTD at 2324'
- 5-1/2" 15.5# liner top at 1593'
- Polished bore recepticle depth at 2404'
- Base of planned wire wrapped screen at 1085'
- Estimated theoretical volume = $318 \text{ ft}^3 = (2324\text{ft} - 1593\text{ft}) * 0.1336\text{ft}^3/\text{ft} + (1593\text{ft} - 1085\text{ft}) * 0.4340\text{ft}^3/\text{ft}$

Pull up above the estimated plug top and reverse circulate at least 2x the theoretical tubing volume to clean out cement. POOH 5 stands and SWIFN. Wait on cement to cure overnight. After cement cures, run down and tag cement top. Call Santa Maria DOGGR to witness tag at (805) 938-0894. POOH with tubing and RDMO cementers.

- 2 CHANGE BOP: ND 7-1/16" 3000# BOP. Remove Cameron C section tubing head. Install 11" 3000# double gate BOP (w/ 2-7/8" tubing rams on top) and accumulator on Cameron B section. Close blind rams and pressure test casing and BOP to 1000# for 10 minutes. Call Santa Maria DOGGR to witness pressure test at (805) 938-0894. If DOGGR wont be able to witness, record the pressure test with a strip chart. Release pressure after test is complete.
- 3 PERFORATE CARREAGA: RU Perforators. NU pump in sub and lubricator. RIH with 4-1/2" 38.3 gram HSD perforating guns configured for 4SPF w/ EHD of 3/8". Perforate the following intervals.

Interval	Bottom Shot	Top Shot
1	954'	928'
2	922'	913'
3	903'	892'
4	832'	810'
5	763'	759'
6	679'	657'
7	650'	640'

RDMO Perforators.

PLAN TITLE Compl. for Carreaga Water Prod**STEP OPERATION**

- 4 RUN WIRE WRAPPED SCREEN: RU to run casing. Pick up the following 5-1/2" 15.5# wire wrapped screen assembly (listed from bottom to top). Ensure that a crossover from 5-1/2" 15.5# LTC to 2-7/8" 6.5# EU is available while running liner in case well must be shut in.

- Bull plug w/ spade
- Blank liner from PBTD to 20' below bottom perf
- Wire wrapped screen from 20' below bottom perf to 20' above top perf
- Blank liner from 20' above top perf to 60' above top perf

MU seal assembly and bravel pack tools w/ a 2-3/8" stinger. RIH w/ liner and land bull plug of liner assembly on cement plug at PBTD. GP the slotted liner assembly into place with 40 x 70 Brady gravel and set seal assembly. POOH w/ GP tools.

- 5 RUN PRODUCTION EQUIPMENT: Remove 11" 3000# BOP and install Cameron C section tubing head. Install 7-1/16" double gate BOP w/ 2-7/8" tubing rams on top as well as an annular bag preventer on top of the double gate BOP. RU Western Wireline. MU the gauge seating assembly (listed below, bottom to top) and install pressure gauge + protector on the 2-3/8" pup joint.

- 5' pup joint of 2-3/8" tubing.
- 2 x 30' joints of 2-7/8" slotted pump protector.
- 2-1/2" top lock pump shoe.
- 2-7/8" tubing to surface

RIH and band E-line to tubing. Set pump intake at the bottom of the last section of wire wrapped screen. Land tubing hanger w/ E-line set through packoff assembly (packoff machined into the tubing hanger). RU to run rods. MU 2-1/2" x 2" x 20' RWA and 7/8" stabilizer bar w/ guides. RIH with pump on 7/8" Grade D rods. Space well and test pump. Install polished rod, tree, stuffing box, and y-header.



RECEIVED

OCT 10 2012

DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES

To whom it may concern:

As part of reviewing Aera Energy LLC's proposed injection test program at the East Cat Canyon oil field, the Division of Oil, Gas & Geothermal Resources requested a letter summarizing the points listed below.

- Zones to be tested, with known or anticipated reservoir fluids, water salinity or TDS
- Source and type of injection fluid.
- Time duration and / or volume(s) to be injected.

The following project description addresses these points. If any additional information is needed, please let me know and I will work to provide it.

Victory G7 and Field Fee G2 are two existing data gathering wells within the East Cat Canyon oil field. Victory G7 will be completed as a temporary water injector in the Monterey. After Victory G7 is completed, we plan to run a water injection test for 23 days. During this test, it is expected that the injection rate will be in the range of 500-700 barrels per day. Water produced from the Sisquoc S2-S8 sands in the Field Fee G2 well will be used as the primary injection fluid. If the water production rate from Field Fee G2 is less than the water injection rate at Victory G7, we plan to make up the difference using produced water provided by ERG.

Once the injection test in the Monterey is finished, the completion will be isolated with a drillable bridge plug and Victory G7 will be re-completed as a temporary water injector in the Sisquoc S3-S8 sands. After Victory G7 has been re-completed, we plan to run a second water injection test for 27 days. During this test, it is expected that the injection rate will again be in the range of 500-700 barrels per day. Water produced from the Careaga sands in the Field Fee G2 well will be used as the primary injection fluid. If the water production rate from Field Fee G2 is less than the water injection rate at Victory G7, we plan to make up the difference using produced water provided by ERG.

As part of this test program, a geochemical analysis will be done on water samples collected from the Monterey, Sisquoc S2-S8 sands, and Careaga sands. Until results from geochemical analysis are available, the expected total dissolved solids values shown below represent the anticipated compositions of waters relevant to the planned injection tests. These total dissolved solids values are based on offset operator water disposal projects and were provided by the Division of Oil, Gas & Geothermal Resources.

- Monterey formation water: 5920-7059 mg/L
- Sisquoc formation water: 3,200 mg/L
- Careaga formation water: fresh water with low total dissolved solids content
- ERG produced water: 5956-7018 mg/L

A step rate test will be performed before water injection testing begins in both the Monterey and the Sisquoc S3-S8 sands. All surface equipment will be controlled to ensure that injection pressure never exceeds limits determined from step rate data at any point during the injection testing.

Thank You,

John Towne
Production Engineer
Aera Energy LLC
(661) 978-4414



VICTORY G-7 Drainage Radius

By volumetrics, the drainage radius is given by

$$r_i = \sqrt{\left(\frac{qt}{23.4h\phi}\right)}$$

where

q	-	injection rate, gal/day
t	-	injection time, day
h	-	injection height, ft
ϕ	-	formation porosity, fraction

In VICTORY G-7, the drainage radius within the test time frame will be 41 ft from the wellbore in Monterey and 22 ft in S2-S8 Sands (Sisquoc) (Table 1).

Well Name	VICTORY G-7	Well Name	VICTORY G-7
Formation	Monterey	Formation	S2-S8
Well Type	Injector	Well Type	Injector
q	500 bpd	q	300 bpd
t	60 days	t	60 days
h	108 ft	h	221 ft
ϕ	0.3	ϕ	0.3
r_i	41 ft	r_i	22 ft

Table 1. Drainage radius calculation for Monterey and S2-S8 Sands (Sisquoc)

There are no active or abandoned wells within the drainage area.

Malou T. Guerrero-Lee

September 27, 2012

**DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
CHECK LIST - RECORDS RECEIVED AND WELL STATUS**

COMPANY Aera Energy LLC WELL NO "Field Fee" G2
 API NO. 083-22694 SEC. 32, T. 9N, R. 32W, S.B. B.&M.
 COUNTY Santa Barbara FIELD Cat Canyon

<u>RECORDS RECEIVED</u>	<u>DATE</u>	<u>STATUS</u>
Well Summary (Form OG100) _____		(Date) _____
History (form OG103) <u>12-10-12</u>		<u>✓</u> Engineer's Check List
Directional Survey _____		<u>✓</u> Summary, History, & Core Record
Core Record and/or SWS _____		<u>✓</u> Directional Survey
Other: _____		<u>✓</u> Logs
Electric logs: _____		<u>✓</u> Operator's Name
_____		<u>✓</u> Signature
_____		<u>✓</u> Well Designation
_____		<u>✓</u> Location _____
_____		<u>✓</u> GPS Location Received
_____		<u>✓</u> Entered in Computer
_____		<u>✓</u> Notice
_____		<u>✓</u> "T" Reports
_____		<u>✓</u> Casing Record
_____		Plugs (Sfc. Plg Date) _____
_____		Final Sfc. Insp Date _____
_____		Production/Injection _____

Clerical Check List

Form OGD121
 _____ Location change (OG165)
 _____ Elevation change (GD165)
 _____ Final Letter (OG159)
 _____ Release of Bond (OGD150)
 _____ Abd _____ in WSS
 _____ Notice of Records Due (OGD170)
 _____ Request: _____

Computer

✓ CalWims Drill Card
✓ Idle Well Status Change
 (P: Idle/Idle Wells 2000/Idle Wells Master & CalWims)
✓ WSS Code or Status Changes

Map Work: _____

Follow Up: None Needed

Hold for: New Permit

Scan Records _____

Records Approved 02/05/13 JI

OGD2

*Sisquoc S₂-S₈ (59?)
 was heavily acidized prior
 to production; water samples
 won't be useful for native TDS etc.*

TV

RECEIVED

DEC 10 2012

SUBMIT IN DUPLICATE

DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCESRESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

NO.	LETTER	NO.	114	121
				CWims 12/12 pd

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES**HISTORY OF OIL OR GAS WELL**Operator: Aera Energy LLCField: Cat CanyonCounty: Santa BarbaraLegal Well Name: FIELD FEE G2Aera Well Name: FLDG2SEC: 32T: 09NR: 32W

S.B. B M.

API: 083-22694Name: Mark DuFreneTitle: AgentDate: 12/6/12

(Person submitting report)

(President, Secretary, or Agent)

Signature: Misty Rogers10000 Ming Ave., Bakersfield, CA 93311

(Address)

661-665-5294 MR Rogers

(Telephone Number)

History must be complete in all details. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing test and initial production data.

KB: 12.5 Ft.

Date: Daily Activity:

08/28/2012

Depth: Description:

CREW MOVED TO LOCATION

SAFETY MEETING

RU WORK FLOOR

SPOT 500 GALS TANK. HALF TANK, UNLOAD LAY DOWN MACHINE UNLOAD TBG 141 JTS@ VIC G7 .

25 PU 1 JT MU 9-5/8 BP RIH SET@25FT POOH W/RETIVING TOOL RU TESTER TEST LOW TEST 250 HIGH 3000 PSI 10 MINS RIG DOWN TESTER RIH RETRIVE BP AND POOH.

CREW MOVED TO YARD

08/29/2012

Depth: Description:

CREW MOVED TO LOCATION

SAFETY MEETING

WAIT ON CRANE TO UNLOAD TBG

SPOT TRUCK WITH TBG. RACKS SPOT CRANE UNLOAD TBG RACK N SPOT RESPOT CRANE PU TBG FROM GROUND LOAD UP ON TBG RACKS TALLY TBG

2,828 MU MULE SHOE START PU TBG FROM RACK PU 91 JTS OF 2-7/8 TAG@2828 STARTED TO MAKE UP X-OVER SPOOL WRONG SPOOL SECURE WELL

CREW MOVED TO YARD

08/30/2012

Depth: Description:

CREW MOVED TO LOCATION

SAFETY MEETING

OPEN BOP, OPEN WELL TBG TONG READY TO POOH W/TBG POOH LAYING DOWN 1ST 21 JTS 2-7/8 STOOD BACK 35 JTS NU CIRC HEAD CHANGE TBG EQUIP TO 2-3/8 SECURE WELL

CREW MOVED TO YARD

08/31/2012

Depth: Description:

CREW MOVED TO LOCATION

SAFETY MEETING

WAIT ON CRANE WITH 2-3/8 TBG

OG103

Operator: Aera Energy LLC

Field: Cat CanyonCounty: Santa BarbaraLegal Well Name: FIELD FEE G2SEC: 32T: 09NR: 32WS.B. B. M.API: 083-22694Name: Mark DuFreneTitle: AgentDate: 12/6/12

(Person submitting report)

(President, Secretary, or Agent)

Date: Daily Activity:

2,826 UNLOAD 2-3/8 TBG ON RACK PU 20 JTS OF 2-7/8 RIH REST 2-7/8 TAG@2826
 SECURE WELL
 CREW MOVED TO BAKERSFIELD

09/04/2012

Depth: Description:

CREW MOVED FROM BAKERSFIELD
 SAFETY MEETING
 OPEN BOP, HOOK UP 2" STEEL LINE TO PUMP MU KING SWIVEL WAIT ON HALLIBURTON
 SPOT HALLIBURTON HOLD MEETING MAKE UP JSP FOR JOB
 RU HALLIBURTON PUMP 1ST STAGE 10 BBLS CEMENT ND HALLIBURTON POOH 7 STDS RU HALLIBURTON PUMP
 6 BBLS 2ND STAGE RIG DOWN HALLIBURTON LAY DOWN 2 JTS RIH 12' OF SUBS RU KS BACK SCUDDLE PUMP
 36 BBLS RD KS LAY DOWN 12 JTS OF 2-7/8 SECURE WELL
 CREW MOVED TO YARD

Cementing Report

CEMENT PLACEMENT DATE: 9/4/2012					
ASSEMBLY: 9 5/8" Casing	TOP: 0.00	TOTAL PUMPED (CF): 1,330.7			
INSTALL DATE: 2/9/2012	BORE: 00	BOTTOM: 2,605.00	TOTAL RETURNS (CF): 112.3		
STAGE: Squeeze	CEMENT IN PLACE: :				
TOP PLUG USED?: Yes	BOTTOM PLUG USED?: No	BUMP PLUG?: Yes	FLOAT HELD?: Yes		
BUMP PRESSURE (psi):	PRESSURE HELD (min):		HOLD PRESSURE (psi):		
DISPLACEMENT FLUID:	DISPLACEMENT VOLUME (cf): 0.0 (0.0 bbl)		STAGE EXCESS 0.0 %		
SLURRY: SQUEEZE	SLURRY TOP: 0.0	SLURRY BASE: 0.0	FOAMED?: No		
SLURRY NAME: C-1 Versamix 2000	CEMENT CLASS: CLASS C	CEMENT SACKS: 106.00			
SLURRY DENSITY (ppg): 13.4	SLURRY WATER (gal/sk): 8.44	SLURRY YIELD (cf/sk): 1.74			
SLURRY PUMPED (cf): 196.5	SLURRY PLACED (cf): 196.5	SLURRY RETURNS (cf): 0.0 (0.0 bbl)			
ADDITIVE:	AMOUNT:	UNIT OF MEASURE:			
SILICA FLOUR	16.40	Pounds / sack			

09/05/2012

Depth: Description:

CREW MOVED TO LOCATION
 SAFETY MEETING
 2,324 TSIP 0 CISP 0 OPEN BOP RIH TAG@2324 POOH TBG LAY DOWN 20 JTS DOGGR REP. FROM SANTA MARIA
 WITNESSED TAG. MOVE HOSES STAND PIPE HAUL OFF TO JUNK
 SECURE WELL
 CREW MOVED TO YARD

09/06/2012

Depth: Description:

CREW MOVED TO LOCATION
 SAFETY MEETING
 REMOVE CIRC HEAD INSTALL SLUMBERGER J SPOOL PU SPOOL AND LUBRICATOR TEST TO 500 PSI GOOD
 1,665 PU 4-1/2 38.3 HSD GUNS FOR SPF W/EHD OF 3/8 PERFORATE FOLLOWING INTERVALS 2180-2165, 2143-2132, 2120-2111, 2099-2090, 2040-2030, 2005-1990, 1955-1925, 1908-1880, 1814-1784, 1725-1700, 1695-1665, RIG DOWN
 SLUMBERGER J TOOL.
 PU 9-5/8 SCRAPER RIH TO 675 SECURE WELL AND LOAD UP TOOLS
 CREW MOVED TO YARD

Perforation Report

PERFORATION DATE: 9/6/2012

OG103

Operator: Aera Energy LLCField: Cat CanyonCounty: Santa BarbaraLegal Well Name: FIELD FEE G2SEC: 32T: 09NR: 32W

S.B. B. M.

API: 083-22694Name: Mark DuFreneTitle: AgentDate: 12/16/12

(Person submitting report)

(President, Secretary, or Agent)

Date: Daily Activity:

ASSEMBLY:	9 5/8" Casing	BORE:	OH	TOP:	0.00
INSTALL DATE:	2/9/2012	PULL DATE:		BOTTOM:	2.605 00
OPENING TYPE:	TOP:	BOTTOM:	DENSITY:	SIZE (In):	
	1,665.00	1,675.00	4.00	0.5700	
	1,675.00	1,695.00	4.00	0.5700	
	1,700.00	1,705.00	4.00	0.5700	
	1,705.00	1,725.00	4.00	0.5700	
	1,784.00	1,794.00	4.00	0.5700	
	1,794.00	1,814.00	4.00	0.5700	
	1,888.00	1,908.00	4.00	0.5700	
	1,890.00	1,898.00	4.00	0.5700	
	1,925.00	1,935.00	4.00	0.5700	
	1,935.00	1,955.00	4.00	0.5700	
	1,990.00	2,005.00	4.00	0.5700	
	2,030.00	2,040.00	4.00	0.5700	
	2,091.00	2,100.00	4.00	0.5700	
	2,112.00	2,121.00	4.00	0.5700	
	2,133.00	2,144.00	4.00	0.5700	
	2,166.00	2,181.00	4.00	0.5700	

09/07/2012

Depth: Description:

CREW MOVED TO LOCATION

SAFETY MEETING

2,328 CONT TO RIH WITH 9-5/8 36# SCRAPER TO 2328 POOH W/SCRAPER AND LAY DOWN. RIH W/KILSTRING AND SECURE WELL

CREW MOVED TO BAKERSFIELD

09/10/2012

Depth: Description:

CREW MOVED FROM BAKERSFIELD

SAFETY MEETING

POOH W/KILSTRING

MU 9-5/8 CUPS W/30' SPACING AND SLIDING SLEEVE RIH INSTALL CIRC HEAD RIH TO 2180 RU CAL COAST

2,090 START PUMPING 1ST STAGE 2180-2150 15% HCL 150 GALS. FOLLOW BY 13.5 HCL/1.5% HF MUD ACID 150 GALS, FOLLOW BY 3% NH4CL 621 GAL FOLLOW BY 546 BBLs OF LEASE WATER TO FLUSH TBG CLEAR. 750 PSI@10 GALS PER MIN. 2ND STAGE 2160-2130 15% HCL 110 GALS FOLLOW BY 13.5/1.5 MUD ACID 110 GALS FOLLOW BY 3% NH4CL 601 GALS FOLLOW BY 546 GALS OF LEASE WATER TO FLUSH TBG CLEAR 750 PSI@10 GALS PER MIN 3RD STAGE 2120-2090 PUMP 15% HCL 180GALS FOLLOW BY 13.5 HCL/1.5% HF MUD ACID 180 GALS, FOLLOW BY 3% NH4CL 636 GALS FOLLOW BY 546 LEASE WATER TO FLUSH TBG CLEAR 750 PSI 10 GALS PER MIN ND CAL COAST POOH ABOVE TOP PER@1665 SECURE WELL,

CREW MOVED TO YARD

09/11/2012

Depth: Description:

CREW MOVED TO LOCATION

SAFETY MEETING

2,010 RIH 6 STDS TO 2040 RU CAL COAST HOLD MEETING WITH CAL COAST START PUMPING 4TH STAGE PERFS 2040-2010 15% HCL 100GALS FOLLOW 13.5 HCL 1.5% HF MUD ACID 100GALS FOLLOW BY 3% NH4CL 596 GALS FOLLOW 546 LEASE WATER TO FLUSH TBG CLEAR 650 PSI STARTED 15 GALS PER MIN ENDED AT 10 GALS PER MIN RD CAL COAST POOH 1 STAND RU CAL COAST. RU CAL COAST STAGE 5 2005-1975 START PUMPING 15% HCL 150 GALS FOLLOW BY 13.5% HF 1.5%HL MUD ACID 150 GALS FOLLOW BY 3% NH4CL 621 GALS FOLLOW BY 546 GALS LEASE WATER TO CLEAR TBG 650 PSI STARTED 15 GALS PER MIN ENDED 10 GALS PER MIN HAVING PROBLEMS SLIDING SLEEVES POOH ABOVE TOP PER TEST CUPS GOOD SLIDING SLEEVE BAD TURN HOLE OVER ND CAL COAST ND CIRC HEAD POOH TOOLS LAY DOWN RIH WITH 600 FT KILSTRING

CREW MOVED TO YARD

Operator: Aera Energy LLC

Field: Cat Canyon

County: Santa Barbara

Legal Well Name: FIELD FEE G2

SEC: 32

T: 09N

R: 32W

S.B. B. M.

API: 083-22694

Name: Mark DuFrene

Title: Agent

Date: 12/6/12

(Person submitting report)

(President, Secretary, or Agent)

Date: Daily Activity:

09/12/2012

Depth: Description:

CREW MOVED TO LOCATION
SAFETY MEETING

1,878 PU 9-5/8 CUPS SLIDING SLEEVE RIH TO 1955 INSTALL CIRC HEAD RU CAL COAST HOLD SAFTY MEETING WITH CAL COAST. START PUMPING STAGE 1955-1925 15% HCL 300 GALS. FOLLOW BY 13.5 HCL/1.5% HF MUD ACID 300 GALS, FOLLOW BY 3% NH4CL 696 GAL FOLLOW BY 546 BBLs OF LEASE WATER TO FLUSH TBG CLEAR. 6000 PSI@10 GALS PER MIN. ENDED@10 GALS A MIN ND CAL COAST STAND 1 STAND BACK NU CAL COAST STAGE STAGE 1908-1878 PUMPING 15% HCL 280 GALS FOLLOW BY 13.5% HCL 1.5% HF MUD ACID 280 GALS FOLLOW BY 3% NH4CL 686 GALS FOLLOW 546 TO CLEAR TBG STARTED PUMPING 14 GALS A MIN ANDED ENDED 10 GALS A MIN ND CAL COAST POOH ABOVE TOP PER@ 1665 SECURE WELL
CREW MOVED TO YARD

09/13/2012

Depth: Description:

CREW MOVED TO LOCATION
SAFETY MEETING

1,665 STAGE 8 1814-1784 PUMP 15% HCL 300 GALS FOLLOW BY 13.5% HCL/1.5% MUD ACID 300 GALS FOLLOW BY 3% NH4CL 696 GAL FOLLOW BY 546 GALS LEASE WATER TO CLEAR TBG ND EQUIP STAND BACK 1 JT START 14 GALS PER MIN FINISH 10 GALS PER MIN. STAGE 9 1730-1700 PUMP 15% HCL 250 GALS FOLLOW BY 13.5% HCL/1.5% MUD ACID 250 GALS FOLLOW BY 3% NH4CL 671 GAL FOLLOW BY 546 GALS LEASE WATER TO CLEAR TBG ND EQUIP STAND BACK START 14 GALS PER MIN FINISH 10 GALS PER MIN. POOH 2 STANDS STAGE10 1695-1665 NU CAL COAST PUMP 15% HCL 300 GALS FOLLOW BY 13.5%/1.5% MUD ACID 300 GALS FOLLOW BY 3% NH4CL 696 GALS FOLLOW BY 546 GALS OF LEASE WATER TO CLEAR TBG STARTED 12 GALS PER MIN FINISH 10 GALS PER MIN RAISE 10' CIRC HOLE 120 BBLs POOH TBG ND CIRC HEAD POOH 9-5/8 CUPS SLIDING SLEEVES RIH W/KILSTRING 600 SECURE WELL
CREW MOVED TO YARD

09/14/2012

Depth: Description:

CREW MOVED TO LOCATION
SAFETY MEETING

INSTALL BOPE-NU 11" 3000# BAD ADJUST FLOOR RIH W/KILSTRING
TRIED TO NEUTRALIZE ACID ON 1/2 TANK DUMP 1 BAD SODA ASH VAC TRUCK EMPTY TANK PUMP INTO 500 GAL TANK AND TURN WATER OVER FINALLY NUUTRALIZE
CREW MOVED TO BAKERSFIELDS

09/17/2012

Depth: Description:

CREW MOVED FROM BAKERFIELD
SAFETY MEETING

2,320 RIH W/TBG TAG@2330 POOH TBG
RU CSG TONGS 5-1/2 EQUIP
WAITING ON CSG TING BACK UPS
START PICKING UP 5-1/2 36# CSG PU 3 BLANKS 107" WITH STABILIZER CONT PU 15-5-1/2 WIRE WRAPPED LINER 567.41 PU 1-1/2 BLANK 56.82 THEN 9-5/8" X 5-1/2 HYD STEEL SEAL 4.21 CH OUT CSG TONG RU CSG TONGS 5-1/2 RIH TAG BTM OF SHOE POOH LAY DOWN 1 JT PU 8' SUB RIH PU GRAVEL PACK TOOL AND SSA RO 2-7/8 TONGS PU 5-1/2 CSG TONGS THIGHRN GT RIH RO CSG TONG RU 2-7/8 TONGS PU 2 JTS RIH SECURE WELL
SECURE WELL
CREW MOVED TO YARD

09/18/2012

Depth: Description:

CREW MOVED TO LOCATION
SAFETY MEETING

OG103

68

Operator: Aera Energy LLCField: Cat CanyonCounty: Santa BarbaraLegal Well Name: FIELD FEE G2SEC: 32T: 09NR: 32W

S.B. B. M.

API: 083-22694Name: Mark DuFreneTitle: AgentDate: 12/6/12

(Person submitting report)

(President, Secretary, or Agent)

Date: Daily Activity:2,320 RIH W/5-1/2 LINER TO 2320

RU GRAVEL PACK PKG MACHINE INSTALL KING SWIVEL

WAITED ON HOPPER MACHINE

ESTABLISH CIRC START GRAVEL PACKING PUMP 100 CF STOP UNLOAD HOPPER MACHINE CONT GRAVEL
 PACKING LINER PUMP 50CF GETTING SAND BACK STOP CIRC HOLE CLEAN CLEAN OUT 60 CF OF SAND
 INPLACE 90 CF RO WEATHERFORD POOH 12 STANDS CLOSE BOP SECURE WELL

TEST PUMP

Liner Report

ASSEMBLY:	5 1/2" Production Liner	BORE:	00	TOP:	1,593.40
INSTALL DATE:	9/18/2012	PULL DATE:		BOTTOM:	2,330.00
COMPONENT:		TOP: BOTTOM: JOINTS:	SIZE: WEIGHT: GRADE: THREADS:	<u>SLOTS OR PRE-PERFED CASING</u>	
				SIZE: DENSITY: LENGTH: SPACING:	
Liner Tie-back Seal Assembly	1,593.40	1,597.97	1	9.625	LT&C
Liner: Blank	1,597.97	1,654.79	2	5.500	15.00 K-55
Liner: Wire Wrapped Screen	1,654.79	2,222.20	15	5.500	15.50 K-55
Liner: Blank	2,222.20	2,329.20	3	5.500	15.00 K-55
Liner Shoe	2,329.20	2,330.00	1	5.500	

09/19/2012

Depth: Description:

CREW MOVED TO LOCATION

SAFETY MEETING

POOH W/ KILSTRING

RD TBG TONGS HANDRAILS FLOOR GRADING SPOT CRANE ND 11" BAG 11" BOP INSTALL C SECTION 7" BOP 7"
 1/16 BAG RU FLOOR AND TBG TONGS

RIH W/KILSTRING 600 SECURE

CREW MOVED TO YARD

09/20/2012

Depth: Description:

CREW MOVED TO LOCATION

SAFETY MEETING

POOH W/KILSTRING

2,221 RU WESTERN WIRELINE HUNG SHEAVES PU PER 2-7/8 JT INSTALL PRESSURE TOOL RIH PU 2ND PERF JT
 INSTALL PUMP SHOE 2-7/8 RIH STAPPING TUBULAR TBG AROUND TBG @2221.93 PU DONUT LAND AND RD
 WESTERN WIRELINE SECURE WELL

CREW MOVED TO YARD

09/21/2012

Depth: Description:

CREW MOVED TO LOCATION

SAFETY MEETING

SPOT CRANE ND 7 1/16 BAG 7 1/16 BOP UNLAND DONUT REPLACE FN WITH 2" SUB RELAND TRIED TO INSTALL
 TOOL FROM WESTERN UNABLE TO NEED LONGER SUB

WAITED ON LONGER SUB

RIH W/ RODS & PUMP-70-7/8 RODS AND 2.5 X 2 X 24 RHAM

TEST PUMP@500 PSI 1.5 STROKES RU FLOOR AND LOAD UP TOOLS AND EQUIP, INSTALL ELECTRICAL WIRE
 TO SOLAR PANEL

SECURE WELL

CREW MOVED TO BAKERSFIELD

Operator: Aera Energy LLC

Field:

Cat Canyon

County: Santa Barbara

Legal Well Name: FIELD FEE G2

SEC: 32

T: 09N

R: 32W

S.B. B. M.

API: 083-22694

Name: Mark DuFrene

Title: Agent

Date:

09/24/12

(Person submitting report)

(President, Secretary, or Agent)

Date: Daily Activity:

09/24/2012

Depth:

Description:

CREW MOVED TO LOCATION

SAFETY MEETING

LOAD UP RIG MATS HOSES RIG FLOOR ON FLAT BED

RDMO

CLEAN LOCATION-LOAD UP LAY DOWN MACHINE

CREW MOVED TO YARD



NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
195 S Broadway, Suite 101 Orcutt, CA 93455-4655
Phone: (805) 937-7246 Fax: (805) 937-0673

No. T 312-0305

REPORT ON OPERATIONS

Mark Du Frene
Aera Energy LLC (A0610)
66893 Sargent Canyon Rd.
San Ardo, CA 93450

Orcutt, California
September 10, 2012

Your operations at well **"Field Fee" G2**, A.P.I. No. **083-22694**, Sec. **32**, T. **09N**, R. **32W**, **SB B.&M.**, **Cat Canyon** field, in **Santa Barbara** County, were witnessed on **9/5/2012**, by **Jon Iverson**, a representative of the supervisor.

The operations were performed for the purpose of **plugging back the lower portion of the well**.

DECISION: **APPROVED**

cc: Santa Barbara County Petroleum


Jl:cb

Misty Rogers
Abandonments to Maxine Davis

Tim Kustic

State Oil and Gas Supervisor

By



Patricia A. Abel, District Deputy

bel

CEMENTING/PLUGGING MEMO

T 312 - 0305

Operator Aera Energy LLC Well No. "Field Fee" G2
 API No. 083-22694 Sec. 32 T. 09N R. 32W S.B. B&M
 Field Cat Canyon, County Santa Barbara On 09/05/2012
 Mr. / ~~Ms~~ Jon Iverson, representative of the supervisor, was present from 0800 to 0830

There were also present John Towne - Aera DSM

Casing record of well:

The operations were performed for the purpose of T(2)

☒ The plugging/~~completion~~ operations as witnessed and reported are approved.

☐ The location and hardness of the cement plug @ _____ are approved.

Hole size: _____ " fr. _____ " to _____ " , _____ " to _____ " & _____ " to _____ "

Casing				Cemented			Top of Fill		Squeezed Away	Final Pressure	Perforations
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			

Casing/tubing recovered: _____ " Shot/cut at _____ " , _____ " , _____ " Pulled fr. _____ " ;
 _____ " Shot/cut at _____ " , _____ " , _____ " Pulled fr. _____ " .

Junk (in hole): _____

Clean Out Depth: _____ 2,848 " Witnessed by Reported

Mudding	Date	bbls	Displaced	Poured	Fill	Engineer

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Volume	MO & Depth	Time	Engineer	Depth	Wt/Sample	Date & Time	Engineer
<u>09/04</u>	<u>98 cf</u>	<u>tbg @ 2,843'</u>		<u>reported</u>	<u>2,324'</u>	<u>tbg w/10k</u>	<u>09/05 @ 0810</u>	<u>Jlverson</u>

Cementing Details:

NATURAL RESOURCES AGENCY
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
(805) 937-7246

NOTICE OF RECORDS DUE

Mark DuFrene, Agent
Aera Energy LLC
66893 Sargent Canyon Rd.
San Ardo, CA 93450

Santa Maria, California
August 20, 2012

In accordance with Division 3 of the Public Resources Code of California, the following records are due within 30 days from this notice, covering the drilling of your well "Field Fee" G2, A.P.I. No. 083-22694, Cat Canyon Field, Santa Barbara County, Sec. 32 T. 9N, R. 32W, S.B. B.&M.

RECORDS: Records are due within 60 days after completion, suspension, or abandonment of any well, or upon completion of additional work in any well.

Records shall be submitted in duplicate. Division forms must be signed in the spaces provided.

OIL AND GAS OPERATION

GEOTHERMAL OPERATION

☐ Well summary (Form OG100)

☐ Well summary (Form OGG100)

☐ Core or sidewall sample (Form OG101)

☐ Core or sidewall sample (Form OGG101)

☐ History (Form OG103)

☐ History (Form OGG103)

LOGS, TESTS, AND SURVEYS: All logs, tests, and surveys are due within 60 days after completion, suspension, or abandonment of any well, or upon completion of additional work in any well. Logs, tests, and surveys shall be submitted in duplicate.

☐ Electric log (1" = 50')

☐ Velocity survey

☐ Water analysis

☐ R/A survey

☐ Directional survey

☐ Mud log

☐ Oil and/or gas analysis

☐ Spinner survey

☐ Dipmeter (computed)

☐ Pressure survey
(flowing and static)

☐ Temperature survey

☐ Cement bond log

☐ Two copies of all logs

☒ Other Rotary Core Data (2630' - 2810')

rec'd 10/1/12

REPORTS FOR THE MONTH OF: Production, oil and gas disposition, and injection reports are due on or before the 30th day of each month for the preceding calendar month. Signatures must be provided as required on Division forms.

OIL AND GAS OPERATION

GEOTHERMAL OPERATION

☐ Production and disposition reports (Form OG110 or computer report)

☐ Production reports (Form OGG110)

☐ Injection reports (Form OG110B or computer report)

☐ Injection Reports (Form OGG110B)

NAME Patricia A. Abel

TITLE District Deputy

Signature



OG170
RB:cb

cc: Chrono
Deficiency
Follow-up
Misty Rogers
Well file



REGIONAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS & GEOTHERMAL RESOURCES
195 S Broadway, Suite 101 Orcutt, CA 93455 - 4655

No. P 312-0378

Old	New
128	128
FIELD CODE	
06	06
AREA CODE	

POOL CODE

Orcutt, California
August 20, 2012

PERMIT TO CONDUCT WELL OPERATIONS

Mark Du Frene, Agent
Aera Energy LLC (A0610)
66893 Sargent Canyon Rd.
San Ardo, CA 93450

Your proposal to **Rework** well "Field Fee" G2, A.P.I. No. **083-22694**, Section 32, T. **09N**, R. **32W**, SB B. & M., Cat Canyon field, East area, -- pool, Santa Barbara County, dated **7/31/2012**, received **8/3/2012** has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
 - a. Class II **2M**, with hydraulic controls, on the **9 5/8"** casing.
 - b. A **2M** lubricator for perforating operations.
2. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
3. **No pipelines shall be installed or fluid injected prior to receipt of the Division's approval listing requirements for this project.** The issuance of injection testing approval is being withheld pending receipt and review of required project information.
4. No program changes are made without prior Division approval.
5. **THIS DIVISION SHALL BE NOTIFIED TO:**
 - a. Witness a pressure test of the **5 1/2"** casing.

NOTE:

1. The Division recommends, as a minimum, that carbon monoxide monitoring equipment and a vent line be installed and maintained in operating condition during all extensive perforating operations.
2. The Division routinely monitors monthly well production data and if anomalous water production is indicated, remedial action will be ordered.
3. **No injection is authorized at this time.**
4. Permission must be obtained from this Division before flaring or blowing gas.
5. Unlined sumps containing harmful water are not to be located over freshwater bearing aquifers.
6. Hole fluid disposal must comply with Regional Water Quality Control Board regulations.

Blanket Bond

cc: Misty Rogers
Santa Barbara County
Well file

Tim Kustic
State Oil and Gas Supervisor

Engineer Ross Brunetti
Office (805) 937-7246

By 
Patricia A. Abel, District Deputy

RB:cb

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended. Issuance of this permit does not affect the Operator's responsibility to comply with other applicable state, federal, and local laws, regulations, and ordinances.



FOR DIVISION USE ONLY		
Bond	Forms	
	OGD114	OGD121

Blanchard Wins *OG*

NOTICE OF INTENTION TO REWORK / REDRILL WELL

Detailed instructions can be found at: www.conservation.ca.gov/dog/

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our

intention to rework/redrill well _____, Field Fee G2, API 083-22694
(circle one)

Sec. 32, T. 9N, R. 32W, SB B. & M., Cat Canyon Field, Santa Barbara County.

The complete casing record of the well(present hole), including plugs and perforations, is as follows:

(Attach wellbore schematics diagram also.)

The total depth is 2848.47 feet. The effective depth is 2960 feet.

Present completions zone _____ Anticipated completion _____

Present zone pressure N/A psi; New zone pressure N/A psi;

Is this a critical well as defined in the California Code of Regulations, Title 14, to Section 1720(a) ☐ YES ☒ NO

For redrilling or deepening only, is a California Environmental Quality Act (CEQA) document required by a local agency? ☐ YES ☒ NO If yes, see next page.

The proposed work is as follows: (A complete program is preferred and may be attached.)

Complete well for wtr prod tes

RECEIVED

AUG 03 2012

DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES

If well is to be redrilled or deepened, show proposed coordinates (from surface location) and true vertical depth at total depth: _____ feet. _____ (Direction) and _____ feet. _____ (Direction)

Will the Field and/or Area change: ☐ YES ☒ NO If yes, specify New Field: _____ New Area: _____

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator <u>Aera Energy LLC</u>		<u>P312-0377</u> <u>also NORD</u>	
Address <u>P.O. Box 11164</u>		City <u>Bakersfield, CA.</u>	Zip Code <u>93389-1164</u>
Name of Person Filing Notice , Agent	Telephone Number <u>(661) 665-5294</u>	Signature <u>Musty Rogers</u>	Date <u>7/31/2012</u>
Individual to contact for technical questions:	Telephone Number	E-Mail Address	

This notice and an indemnity or cash bond must be filed, and approval given, before the workover brings. (See the reverse side for bonding information.) If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.



Aera Energy LLC

10000 Ming Ave., B
Kersfield, CA 93311

Workover Permit Application

7/31/2012 1:18:05 PM

Legal Well Name: FIELD FEE G2

Well Type: Producer

API#: 083-22694

DOG Field:

Lease: Field - 51711

Section: 32

Aera Well Name: FLDG2

Engineer: Pereira

Top of Fill: *Downe*

Township: 09N

Datum: Kelly Bushing

Datum Elevation: 886.54

Datum to GL: 12.50

Range: 32W

Wellbore Configuration:

DFW Bore	Enterprise Bore	Kick-Off Depth	Kicked from	Kick-Off Date	PBTMD	TMD	Rig Release Date
OH	0000	0		02-Feb-12	2,848	2,960	18-Feb-12

Job Type: COMPLETION

Objective: Complete new well

Date Issued: 3/27/2012

Current Configuration

Casing:	Wellbore#: OH(00)	String Code: C1	Cemented: Y
---------	-------------------	-----------------	-------------

ASSEMBLY:	20" Conductor Pipe		TOP: 0	BOTTOM: 93					
DETAIL:	INSTALL DATE: 2/1/2012								
COMPONENT:	SIZE:	WEIGHT:	SLOT/ GAUGE:	DENSITY:	GRADE:	THREADS:	TOP:	BOTTOM:	SLOT STATUS:
KB to Assembly Top	0.000	0.00	0.000	0			0	13	
Casing: Blank	20.000	90.00	0.000	0	Sch20	Plain End	13	93	

Casing:	Wellbore#: OH(00)	String Code: C2	Cemented: N
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ASSEMBLY:	13 3/8" Casing		TOP: 0	BOTTOM: 581					
DETAIL:	INSTALL DATE: 2/3/2012								
COMPONENT:	SIZE:	WEIGHT:	SLOT/ GAUGE:	DENSITY:	GRADE:	THREADS:	TOP:	BOTTOM:	SLOT STATUS:
KB to Assembly Top	0.000	0.00	0.000	0			0	13	
Casing: Blank	13.375	54.50	0.000	0	K-55	BT&C	13	542	
Casing Insert Valve or Baffle	13.375	0.00	0.000	0			542	542	
Casing: Blank	13.375	54.50	0.000	0	K-55	BT&C	542	580	
Casing Guide Shoe	13.375	0.00	0.000	0			580	581	

Casing:	Wellbore#: OH(00)	String Code: C3	Cemented: N
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ASSEMBLY:	9 5/8" Casing		TOP: 0	BOTTOM: 2,605					
DETAIL:	INSTALL DATE: 2/9/2012								
COMPONENT:	SIZE:	WEIGHT:	SLOT/ GAUGE:	DENSITY:	GRADE:	THREADS:	TOP:	BOTTOM:	SLOT STATUS:
Casing: Blank	9.625	36.00	0.000	0	K-55	LT&C	0	2,556	
Casing Float Collar	9.625	0.00	0.000	0			2,556	2,558	
Casing: Blank	9.625	36.00	0.000	0	K-55	LT&C	2,558	2,603	
Casing Float Shoe	9.625	0.00	0.000	0			2,603	2,605	

Liner:	Wellbore#: OH(00)	String Code: L1	Cemented: N
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ASSEMBLY:	5 1/2" Production Liner		TOP: 2,404	BOTTOM: 2,938					
DETAIL:	INSTALL DATE: 2/17/2012								
COMPONENT:	SIZE:	WEIGHT:	SLOT/ GAUGE:	DENSITY:	GRADE:	THREADS:	TOP:	BOTTOM:	SLOT STATUS:
	0.000	0.00	0.000	0			2,404	2,404	

Liner:	Wellbore#: OH(00)	String Code: L1	Cemented: N
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ASSEMBLY 5 1/2" Production Liner TOP: 2,404 BOTTOM: 2,938

DETAIL: INSTALL DATE: 2/17/2012

COMPONENT:	SIZE:	WEIGHT:	SLOT/ GAUGE:	DENSITY:	GRADE:	THREADS:	TOP:	BOTTOM:	SLOT STATUS:
Liner Seal Adapter	5.500	0.00	0.000	0		LT&C	2,404	2,414	
Liner Landing Nipple	5.500	0.00	0.000	0		LT&C	2,414	2,416	
Liner Hanger	5.500	0.00	0.000	0			2,416	2,421	
Liner Crossover	5.000	0.00	0.000	0			2,421	2,423	
Liner: Blank	5.500	15.50	0.000	0	K-55	LT&C	2,423	2,849	
Liner Latch Collar	5.500	0.00	0.000	0		LT&C	2,849	2,850	
Casing: Blank	5.500	15.50	0.000	0	K-55	LT&C	2,850	2,893	
Liner Float Collar	5.500	0.00	0.000	0		LT&C	2,893	2,894	
Liner: Blank	5.500	15.50	0.000	0	K-55	LT&C	2,894	2,937	
Liner Float Shoe	5.500	0.00	0.000	0		LT&C	2,937	2,938	

Work Plan:	Planner: John Towne
------------	---------------------

PLAN TITLE Complete well for wtr prod tes

STEP OPERATION

- 1 Remove Cameron A section. Install 11" 3000# double gate BOP (w/ 2-7/8" tubing rams on top) and accumulator on Cameron B section. Pick up one joint of 2-7/8" tubing and MU a Weatherford TS-U Retrievable Bridge Plug (to be set in 9-5/8" 36# K-55 casing). RIH and set bridge plug leaving a few feet of tubing sticking up above tubing rams. Install TIW valve on top of tubing, close tubing rams, and pressure test BOP to 3000# for 10 minutes. Release pressure, open tubing rams, and unset RBP. POOH and lay down RBP and tubing.
- 2 RU Perforators. RIH with 4-1/2" 38.3 gram HSD perforating guns configured for 4SPF w/ EHD of 3/8". Perforate the following intervals.

interval	bottom shot	top shot
1	2180'	2165'
2	2143'	2132'
3	2120'	2111'
4	2099'	2090'
5	2040'	2030'
6	2005'	1990'
7	1955'	1925'
8	1908'	1880'
9	1814'	1784'
10	1725'	1700'
11	1695'	1665'

**DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
CHECK LIST - RECORDS RECEIVED AND WELL STATUS**

COMPANY Aera Energy LLC WELL NO "Victory" G2
API NO. 083-22694 SEC. 32 T. 9N R. 32W S.B. B.&M.
COUNTY Santa Barbara FIELD Cat Canyon

<u>RECORDS RECEIVED</u>	<u>DATE</u>	<u>STATUS</u>
Well Summary (Form OG100)	<u>04-16-12</u>	_____ (Date)
History (form OG103)	<u>04-16-12</u>	<u>Engineer's Check List</u>
Directional Survey	<u>04-16-12</u>	_____ Summary, History, & Core Record
Core Record and/or SWS	<u>04-16-12</u>	_____ Directional Survey
Other: _____		_____ Logs
Electric logs: _____		_____ Operator's Name
For List of Logs See Attached		_____ Signature
Those with a checkmark received 04-16-12		_____ Well Designation
_____		_____ Location
_____		_____ GPS Location Received
_____		_____ Entered in Computer
_____		_____ Notice
_____		_____ "T" Reports
_____		_____ Casing Record
_____		Plugs (Sfc. Plg Date) _____
_____		Final Sfc. Insp Date _____
_____		Production/Injection _____

Clerical Check List

Form OGD121 _____
 _____ Location change (OG165) _____
 _____ Elevation change (GD165) _____
 _____ Final Letter (OG159) _____
 _____ Release of Bond (OGD150) _____
 _____ Abd _____ in WSS _____
 * Notice of Records Due (OGD170) _____
 * Request: 2 copies
Rotary core data rec'd 10/1/12
(2630' - 2810')
 _____ Scan Records _____

Computer
 _____ 121 Status Change
 _____ Drlg Table-TD
 (F: Annual Rept/Yr/Prelim Drlg Stat)
 _____ Redrill & Deepen Depths
 (F: Annual Rept/Yr/Prelim Drlg Stat)
 _____ Idle Well Status Change
 (F: Idle/Idle Wells 2000/Idle Wells Master
 _____ WSS Code or Status Changes
* Calwims Drillcard

Map Work: _____

* Follow Up: 3/1/2012

* Hold for: Well not perforated, 6 Months Prod

Records Approved SE 9/4/12

Field Fee G2

LOG LIST

- ✓✓ Combinable Magnetic Resonance GR 2669.5'-2918' ran 02/16/12
- ✓✓ Combinable Magnetic Resonance Tool GR ran 02/07/12
- ✓✓ Platform Express HRLA/TLD/MCFL/HGNS/HSTS/ADT 2605'-2953' ran 02/15/12
- ✓✓ Platform Express HRLA/TLD/MCFL/HGNS/HSTS/ADT ran 50'-2617'
- ✓✓ Hostile Environment Natural Gamma Ray 2605'-2951' ran 02/16/12
- ✓✓ Hostile Environment Natural Gamma Ray 582'-2617' ran 02/07/12
- ✓✓ SCMT Cement Bond Log RST (No Sigma) GR/CCL Temp 2400'-2826'
- ✓✓ Elemental Capture Sonde GR 2605'-2951' ran 02/16/12
- ✓✓ Elemental Capture Spectroscopy GR 582'-2617' ran 02/07/12
- ✓✓ Ultrasonic Imager CCL 28'-2390'
- ✓✓ Xpress Pressure Tester Gamma Ray Tie in 2918'-02960' ran 02/16/12
- ✓✓ Xpress Pressure Tester Gamma Ray Tie in ran 02/08/12
- ✓✓ Formation Micro Imager GR 582'-2607' ran 02/08/12
- ✓✓ Formation Micro Imager GR 2605'-2957' ran 02/16/12
- ✓✓ Chronological Sample Taker GR Tie In 614'-2608' ran 02/08/12
- ✓✓ Chronological Sample Taker GR Tie In 2639.5'- 2929.5' ran 02/17/12
- ✓✓ Sidewall Core Analysis Results dated 03/20/12 ✓
- ✓✓ Sidewall Core Analysis Results dated 03/16/12 ✓
- ✓✓ Final Plot ✓

16
X Rotary core analysis

* Conventional core analysis and
color sidewall core results
saved on S drive 10/1/12

RECEIVED

APR 16 2012

DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES



GeoGuidance Drilling Services

Survey Report



Company:	AERA ENERGY	Local Co-ordinate Reference:	Well FLD-G2
Project:	SANTA MARIA	TVD Reference:	FLD-G2 F @ 886.54usft (GSD 14)
Site:	SECTION 32	MD Reference:	FLD-G2 F @ 886.54usft (GSD 14)
Well:	FLD-G2	North Reference:	Grid
Wellbore:	FLD-G2	Survey Calculation Method:	Minimum Curvature
Design:	FLD-G2	Database:	EDM 5000.1 Single User Db

Project	SANTA MARIA, SAN LUIS OBISPO		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAO 1927 (NADCON CONUS)		
Map Zone:	California V 405		

Site	SECTION 32, SEC 32, T9N, R32W, S.B.B.M.		
Site Position:	Map	Northings:	486,000.00 usft
From:		Easting:	1,318,000.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	34° 48' 51.445 N
		Longitude:	120° 16' 20.332 W
		Grid Convergence:	-1.30 "

Well	FLD-G2, SUR N 486946.68 E 1317445.63					
Well Position	+N/-S	0.00 usft	Northings:	486,946.68 usft	Latitude:	34° 49' 0.683 N
	+E/-W	0.00 usft	Easting:	1,317,445.63 usft	Longitude:	120° 16' 27.236 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	886.54 usft	Ground Level:	874.04 usft

Wellbore	FLD-G2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/20/2011	13.13	59.12	47,538

Design	FLD-G2				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	54.57	

Survey Program	Date 2/15/2012				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
112.00	2,960.00	VIC-G2 API# (FLD-G2)	MWD	MWD - Standard	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.00	0.09	178.28	112.00	-0.09	0.00	-0.05	0.08	0.08	0.00
194.00	0.31	298.86	194.00	-0.05	-0.19	-0.18	0.44	0.27	147.06
291.00	0.40	235.32	291.00	-0.11	-0.70	-0.63	0.39	0.09	-65.51
380.00	0.18	269.95	380.00	-0.29	-1.09	-1.06	0.31	-0.25	36.91
472.00	0.44	282.36	472.00	-0.15	-1.56	-1.36	0.31	0.28	24.36
531.00	0.40	343.47	530.99	0.13	-1.83	-1.42	0.62	-0.07	86.63
593.00	0.66	336.00	592.99	0.66	-2.04	-1.28	0.43	0.42	-12.05
623.00	0.79	350.98	622.99	1.03	-2.14	-1.15	0.76	0.43	49.93
653.00	0.62	339.64	652.99	1.38	-2.23	-1.02	0.73	-0.57	-37.80

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Design:	FLD-G2	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
583.00	0.57	353.44	682.99	1.68	-2.30	-0.90	0.50	-0.17	46.00
714.00	0.66	60.94	713.98	1.92	-2.17	-0.65	2.22	0.29	217.74
744.00	1.05	65.85	743.98	2.12	-1.76	-0.21	1.32	1.30	16.37
774.00	1.58	66.74	773.97	2.39	-1.13	0.46	1.77	1.77	2.97
804.00	1.80	68.50	803.96	2.73	-0.32	1.33	0.75	0.73	5.87
834.00	2.33	66.13	833.94	3.15	0.68	2.38	1.79	1.77	-7.90
864.00	2.99	60.11	863.91	3.79	1.92	3.76	2.39	2.20	-20.07
894.00	3.55	62.24	893.86	4.61	3.42	5.46	1.91	1.87	7.10
924.00	3.82	59.26	923.80	5.55	5.10	7.37	1.10	0.90	-9.93
954.00	3.69	64.06	953.73	6.49	6.63	9.32	1.13	-0.43	-16.00
983.00	3.87	68.06	982.67	7.26	8.57	11.19	1.10	0.62	13.79
1,014.00	4.09	70.74	1,013.59	8.02	10.59	13.27	0.93	0.71	6.65
1,045.00	4.31	72.41	1,044.51	8.73	12.74	15.44	0.81	0.71	5.39
1,077.00	4.64	73.32	1,076.41	9.47	15.13	17.61	1.05	1.03	2.84
1,109.00	5.01	72.76	1,108.30	10.25	17.70	20.37	1.17	1.16	-1.75
1,140.00	5.32	75.09	1,139.17	11.02	20.38	23.00	1.21	1.00	7.52
1,171.00	5.84	75.49	1,170.03	11.79	23.30	25.82	1.68	1.68	1.29
1,203.00	6.50	72.76	1,201.84	12.73	26.60	29.06	2.26	2.06	-8.53
1,233.00	6.93	67.18	1,231.64	13.94	29.89	32.44	2.60	1.43	-18.60
1,264.00	7.69	61.47	1,262.38	15.65	33.44	36.32	3.39	2.45	-16.42
1,296.00	8.53	58.92	1,294.06	17.90	37.35	40.82	2.85	2.63	-7.97
1,327.00	9.48	56.42	1,324.68	20.50	41.45	45.66	3.34	3.10	-8.06
1,359.00	9.96	56.46	1,356.22	23.49	45.96	51.06	1.47	1.47	0.13
1,389.00	10.55	53.60	1,385.74	26.55	50.33	56.40	2.60	1.97	-9.53
1,420.00	10.85	53.47	1,416.20	29.97	54.96	62.16	0.97	0.97	-0.42
1,450.00	11.34	52.11	1,445.64	33.47	59.55	67.93	1.85	1.63	-4.53
1,481.00	11.73	51.49	1,476.02	37.30	64.43	74.12	1.32	1.26	-2.00
1,512.00	12.40	50.62	1,506.33	41.37	69.46	80.59	2.24	2.16	-2.81
1,542.00	12.88	49.82	1,535.60	45.58	74.51	87.13	1.70	1.60	-2.57
1,574.00	13.49	49.91	1,566.76	50.28	80.09	94.41	1.91	1.91	0.26
1,606.00	13.71	50.57	1,597.86	55.09	85.87	101.91	0.84	0.89	2.06
1,637.00	13.75	50.31	1,627.98	59.78	91.55	109.25	0.24	0.13	-0.84
1,700.00	13.67	49.33	1,689.18	69.41	102.95	124.13	0.39	-0.13	-1.56
1,762.00	13.62	48.73	1,749.43	79.00	114.00	138.69	0.24	-0.08	-0.97
1,854.00	13.45	50.00	1,836.88	93.02	130.34	160.13	0.37	-0.18	1.36
1,918.00	12.96	50.70	1,901.19	102.35	141.59	174.71	0.81	-0.77	1.09
1,984.00	12.48	51.19	1,965.57	111.51	152.87	189.21	0.75	-0.73	0.74
2,043.00	12.57	49.30	2,023.16	119.69	162.71	201.97	0.71	0.15	-3.20
2,134.00	11.91	51.27	2,112.09	132.02	177.54	221.20	0.86	-0.73	2.16
2,197.00	12.17	52.00	2,173.71	140.18	187.85	234.33	0.48	0.41	1.16
2,259.00	11.82	53.12	2,234.35	148.01	198.08	247.20	0.68	-0.56	1.81
2,321.00	11.38	54.00	2,295.09	155.42	208.10	259.67	0.76	-0.71	1.42
2,383.00	11.31	54.43	2,355.88	162.55	218.00	271.86	0.18	-0.11	0.69
2,446.00	11.21	55.49	2,417.66	169.62	228.07	284.15	0.36	-0.16	1.88

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Survey

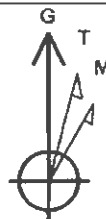
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,509.00	11.47	56.29	2,479.43	176.56	238.33	296.55	0.45	0.41	1.17
2,567.00	12.10	55.42	2,536.21	183.21	248.13	308.39	1.13	1.09	-1.50
2,613.00	12.10	55.42	2,581.19	188.69	256.07	318.03	0.00	0.00	0.00
2,674.00	11.85	57.38	2,640.88	195.63	266.52	330.58	0.99	-0.74	3.21
2,735.00	11.91	57.65	2,701.58	202.43	277.20	343.27	0.43	0.42	0.44
2,960.00	12.50	57.00	2,920.51	228.00	317.05	390.52	0.27	0.26	-0.29

Checked By: _____	Approved By: _____	Date: _____
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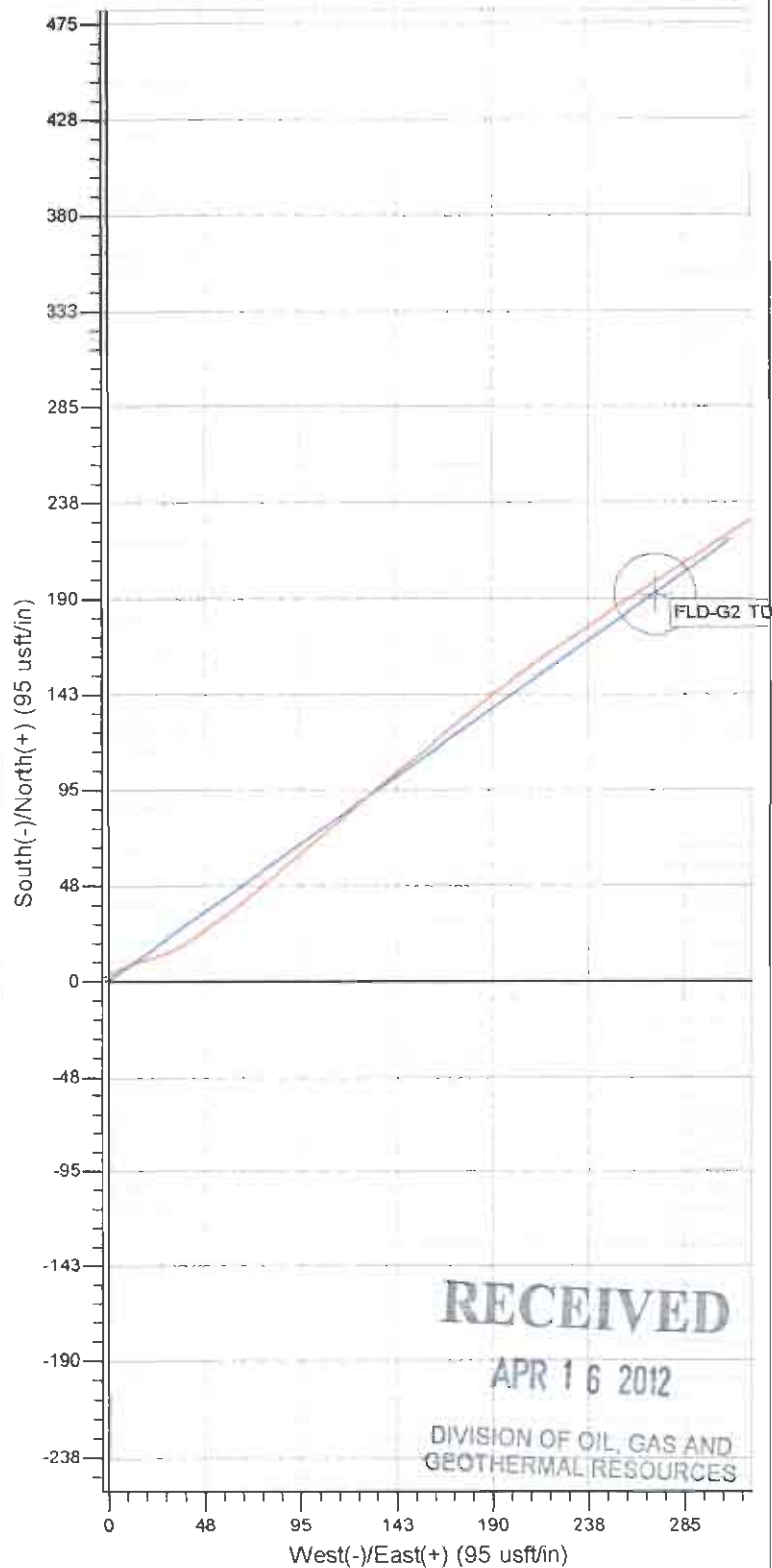
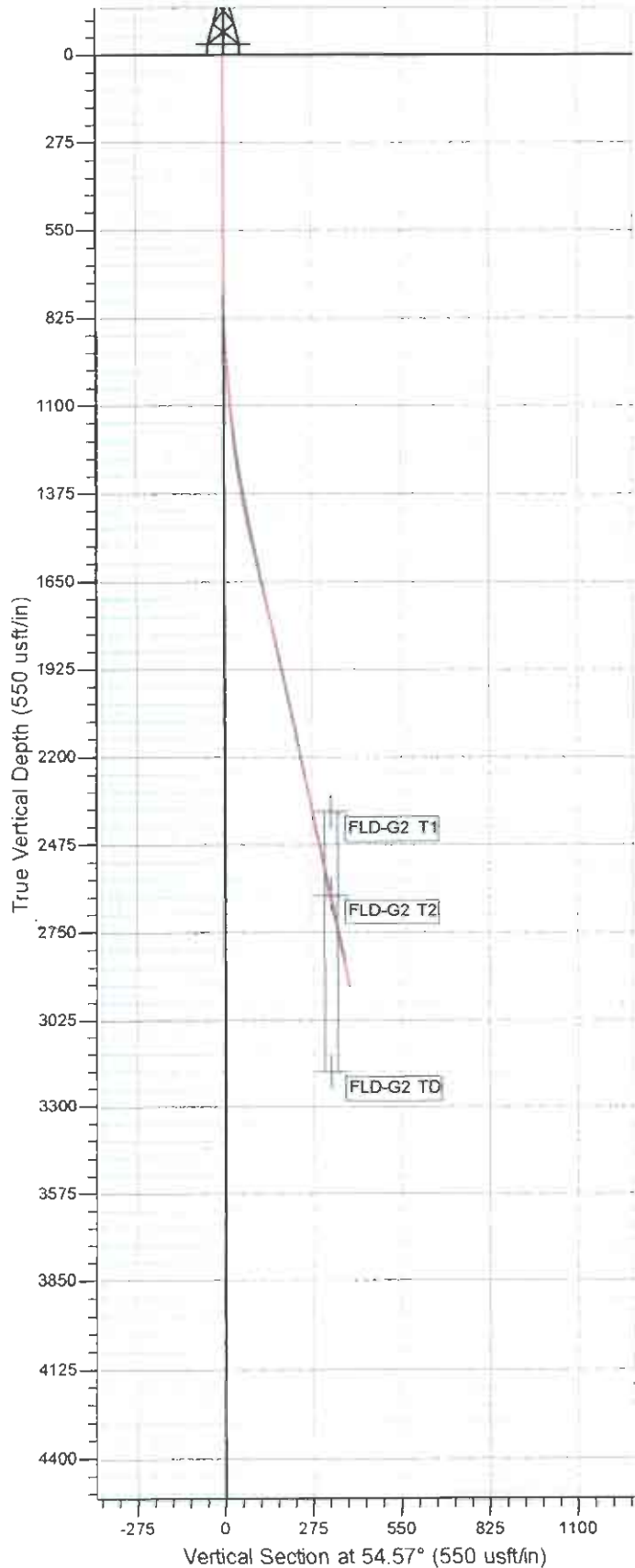
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Proj: SANTA MARIA
S... SECTION 32
Well: FLD-G2
Wellpath: FLD-G2
Design: FLD-G2



A to Grid North
e North: 1.30°
Magnetic North: 14.42°
Magnetic Field
Strength: 47538.2nT
Dip Angle: 59.12°
Date: 9/20/2011
Model: IGRF2010



FINAL PLOT

Well Type:
Oil Producer

WELL SUMMARY REPORT

OPERATOR Aera Energy LLC		WELL Field Fee G2			
FIELD Cat Canyon		COUNTY Santa Barbara	Sec. 32	T. 9N	R. 32W
LOCATION (Give surface location from property or section corner, street center line and/or California coordinates)		B.M. SB			
Lat./Long. In decimal degrees to six decimal places, NAD 83 Format: Lat: 35.816837 Long: -120.275221		Elevation of ground above sea level 874.04			
1526.42 Feet SOUTH 636.86 Feet EAST from the NORTHWEST Cor of Sec 32					
WAS THE WELL DIRECTIONALLY DRILLED? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
228 Feet NORTH (Direction) and 317.05 Feet EAST		From Surface Location			
COMMENCED DRILLING (DATE) 2/2/2012	TOTAL DEPTH		Depth measurements taken from top of:		
	1ST HOLE	2ND HOLE	3RD HOLE	<input type="checkbox"/> DERRICK FLOOR <input type="checkbox"/> ROTARY TABLE <input checked="" type="checkbox"/> KELLY BUSHING	
COMPLETED DRILLING (DATE) 2/19/2012	2960		WHICH IS 12.5 FEET ABOVE GROUND		
COMPLETED DRILLING (DATE) 2/19/2012	PRESENT EFFECTIVE DEPTH 2938		GEOLOGICAL MARKERS		
COMPLETED DRILLING (DATE) 2/19/2012	Junk		CONFIRMED MARKER TOPS		
COMPLETED DRILLING (DATE) 2/19/2012			T/SISQUOC		
COMPLETED DRILLING (DATE) 2/19/2012			T/BROOKS		
COMPLETED DRILLING (DATE) 2/19/2012			T/MONTEREY		
PRODUCTION MODE: <input checked="" type="checkbox"/> FLOWING			DEPTH		
<input type="checkbox"/> Pumping <input type="checkbox"/> GAS LIFT			961		
NAME OF PRODUCTION/INJECTION ZONE(S) BROOKS			2572		
			2691		
			FORMATION AND AGE AT TOTAL DEPTH		
			BASE OF FRESH WATER 660-670		

	Clean Oil (bbl per day)	API Gravity (Clean Oil)	Percent Water (including emulsion)	Gas (Mcf per day)	Tubing Pressure	Casing Pressure
INITIAL PRODUCTION						
PRODUCTION AFTER 30 DAYS						

CASING AND CEMENTING RECORD (PRESENT HOLE)

Size of Casing	Top of Casing	Depth of Shoe	Weight of Casing	Grade and Type of Casing	Size of Hole Drilled	Total Sks, Barrels, FT3 of Cement	Depth of Cementing	Top of Cement in Annulus
20"	0	80'	90#	COND	24"	77 CF	80'	SURF
13 3/8"	0	581.09'	54.5#	K55 BTC	17.5"	701.8 CF	581.09'	SURF
9 5/8"	0	2605'	36#	K55 TLC	12.25"	1134.1 CF	2605'	SURF
5 1/2"	2404.48'	2938'	15.5#	K55 TLC	8.75"	258.3 CF	2404.48'	SURF

PERFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforations and method.)

Well was not Perforated

Logs/surveys run?
SEE ATTACHED FOR LIST OF LOGS RAN

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In compliance with Sec. 3215, Division 3 of the Public Resources Code, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Name Mark DuFrene	Title Agent	
Address P.O. Box 11164	City/State Bakersfield, CA	Zip 93389-1164
Telephone Number (661) 665-5294	Signature <i>Misty Rogers</i>	Date 4/12/2012

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SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Aera Energy LLC

Field: Cat Canyon

County: Santa Barbara

Legal Well Name: FIELD FEE G2

Aera Well Name: FLDG2

SEC: 32

T: 09N

R: 32W

S.B. B M.

API: 083-22694

Name: Mark DuFrene

Title: Agent

Date: 4/12/12

(Person submitting report)

(President, Secretary, or Agent)

Signature: Misty Rogers

10000 Ming Ave., Bakersfield, CA 93311

(Address)

661-665-5294 MR Rogers

(Telephone Number)

History must be complete in all details. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing test and initial production data.

KB: 12.5 Ft.

Date: Daily Activity:

02/01/2012

Conductor Report

ASSEMBLY:	20" Conductor Pipe	BORE:	00	TOP:	0.00
INSTALL DATE:	2/1/2012	PULL DATE:		BOTTOM:	92.50
COMPONENT:		TOP: BOTTOM: JOINTS: SIZE: WEIGHT: GRADE: THREADS:		<u>SLOTS OR PRE-PERFED CASING</u>	
				SIZE: DENSITY: LENGTH: SPACING:	
KB to Assembly Top	0.00	12.50	1		
Casing: Blank	12.50	92.50	1	20.000	90.00 Sch20 Plain End

Depth: Description:

- 93 Held Safety meeting and cover SOP'S and JSA's. Check rig route and location. Monitor for H2S. None present.
- 93 Move from VICG3 to FLDG2. Remove derrick from rig.
- 93 Spot rig on location. Install derrick.
- 93 Work with mechanic and rig up derrick.
- 93 Weld crack on inner wear plate on drawworks drum. Spot mud pump.
- 93 Suspended operations waiting on daylight.

Mud Weight Report

SAMPLE TIME:	DEPTH	WEIGHT
23:59	110.00	9.00

02/02/2012

Start Operations

BORE:	RIG COMPANY:	RIG #:	START OPERATIONS	SPUD or KICK-OFF
			DATE: TIME:	DATE: TIME:
00	GOLDEN STATE DRILLING INC	14	2/1/2012 06:00	2/2/2012 19:00

Depth: Description:

- 93 Suspended operations waiting on daylight.
- 93 Held safety meeting and cover SOP's and JSA's.
- 93 Move in and spot loads. Rig up equipment.
- 93 Slip and cut-trip line and drilling line.

Operator: Aera Energy LLCField: Cat CanyonLegal Well Name: FIELD FEE G2SEC: 32T: 09NR: 32W

S.B. B. M.

API: 083-22694Name: Mark DuFreneTitle: AgentDate: 4/12/12

(Person submitting report)

(President, Secretary, or Agent)

Date: Daily Activity:

93 Set in and nipple up 20" slip on present 20", 90# ERW, Plain end conductor set at 92.5' from KB. (See conductor pipe)

Mix spud mud and unload directional tools on walk.

Make up directional tools and do well to well audit.

144 Spud in and directional drill 17.5" from 92.5' to 144'.

144 Service rig.

151 Dir. drill 17.5" hole from 144' to 151' @ report time.
(Mud wt. = 8.7 ppg).**Mud Weight Report**

SAMPLE TIME:	DEPTH	WEIGHT
23:59	151.00	8.70

02/03/2012

Depth: Description:

320 Dir. drill 17.5" hole from 151' to 320'.

320 Circulate hole clean @ 320'.

320 Wipe hole from 320' to stab. Clean stab. RIH to 320'.

590 Dir. drill 17.5" hole from 151' to 590'.

590 Circulate hole clean @ 590'.

590 POOH from 590' and lay down dir. tools.

590 Service rig.

590 M/U 17.5" bit and stab. RIH to 590'. (Ream hole from 127' to 217').

590 Circulate and condition mud @ 590 to run 13 3/8" casing (Mud wt. = 9.3 ppg).

590 POOH from 590' and lay down collars and stab to run casing.

590 Held safety meeting, rig up, and run 13.375". Insert at 541.58' and shoe at 581.09'.
(See casing report)

590 Circulate and spot cementers on tight location.

590 HSM W/ Halliburton cementers and rig crew. Rig up cementers @ report time.

Casing Report

ASSEMBLY:	<u>13 3/8" Casing</u>	BORE:	00	TOP:	0.00
INSTALL DATE:	2/3/2012	PULL DATE:		BOTTOM:	581.09
COMPONENT:	TOP: BOTTOM: JOINTS: SIZE: WEIGHT: GRADE: THREADS:	SLOTS OR PRE-PERFED CASING			
	SIZE: DENSITY: LENGTH: SPACING:				
KB to Assembly Top	0.00	12.50	1		
Casing: Blank	12.50	541.58	14	13.375	54.50 K-55 BT&C
Casing Insert Valve or Baffle	541.58	541.59	1	13.375	
Casing: Blank	541.59	580.09	1	13.375	54.50 K-55 BT&C
Casing Guide Shoe	580.09	581.09	1	13.375	
ACCESSORIES:					
COMPONENT:	DESCRIPTION:	NUM:	SPACING:	TOP:	BOTTOM: HOW FIXED:
CSCE	Casing Centralizer(s)	6	114.7	36:88	571.09 CLAMPED

Mud Weight Report

SAMPLE TIME:	DEPTH	WEIGHT
11:30	590.00	9.30

02/04/2012

Depth: Description:

OG103

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DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES

Operator: Aera Energy LLC

Field: CAT CanyonLegal Well Name: FIELD FEE G2SEC: 32T: 09NR: 32W

S.B. B. M.

API: 083-22694Name: Mark DuFreneTitle: AgentDate: 4/12/12

(Person submitting report)

(President, Secretary, or Agent)

Date: Daily Activity:

- 590 Cement 13.375" casing as follows. Test lines to 2000psi, pumped 10bbls of H2O ahead of 30bbls of Pre-flush, 125bbls of B11 mixed at 12.2ppg. Drop plug on the fly and displace with 84bbls of Polytek mud. Plug bumped and float held. 25bbls of cement to surface.
See cement report.
- 590 Wait on cement.
- 590 Land casing and remove cement equipment from floor.
- 590 Cut casing and set out. Make final cut and install "A" section of well head at report time. Let cool and Cameron tested to 900psi for 5minutes.
- 590 Set in and nipple up 12/9 BOPE.
- 590 Service rig.
- 590 M/U 12.25" bit and dir. tools.
- 590 Test BOPE and 13.375" casing for the D.O.G. to 500psi. OK. Test witnessed and approved by Christy Kelly.
- 590 RIH to 541.58'.
- 590 Drill out 13.375" casing shoe from 541.58' to 581.09'. Circ.
- 1,041 Dir. drill 12.25" hole from 590' to 1041' @ report time.
(Mud wt. = 9.2 ppg).

Cementing Report

CEMENT PLACEMENT DATE: 2/4/2012		TOP: 0.00		TOTAL PUMPED (CF): 701.8	
ASSEMBLY: 13 3/8" Casing		BOTTOM: 581.09		TOTAL RETURNS (CF): 140.4	
INSTALL DATE: 2/3/2012		BORE: 00			
STAGE: 1st Stage		CEMENT IN PLACE: 01:00			
TOP PLUG USED?: Yes		BOTTOM PLUG USED?: No		BUMP PLUG?: Yes	
BUMP PRESSURE (psi): 845		PRESSURE HELD (min): 5		HOLD PRESSURE (psi): 845	
DISPLACEMENT FLUID: KCL		DISPLACEMENT VOLUME (cf): 471.6 (84.0 bbl)		STAGE EXCESS 80.0 %	
SLURRY: LEAD		SLURRY TOP: 15.5		SLURRY BASE: 581.1	
SLURRY NAME: B-11 Heavy Oil Slurry		CEMENT CLASS: TYPE III		CEMENT SACKS: 236.00	
SLURRY DENSITY (ppg): 12.2		SLURRY WATER (gal/sk): 16.48		SLURRY YIELD (cf/sk): 2.98	
SLURRY PUMPED (cf): 701.8		SLURRY PLACED (cf): 561.5		SLURRY RETURNS (cf): 140.4 (25.0 bbl)	
ADDITIVE:		AMOUNT: UNIT OF MEASURE:			
SILICA FLOUR		25.00 % By Weight of Blend			

Mud Weight Report

SAMPLE TIME:	DEPTH	WEIGHT
23:59	1,041.00	9.20

02/05/2012

Depth: Description:

- 1,041 Circulate holwe clean @ 1041'.
- 1,041 Wipe hole to shoe.
- 1,041 Service rig.
- 1,041 RIH to 1041'.
- 1,385 Dir. drill 12.25" hole from 1041' to 1385'.
- 1,385 Circulate hole clean @ 1385'.
- 1,385 Wipe hole from 1385' to shoe. RIH to 1385'.
- 1,851 Dir. drill 12.25" hole from 1385' to 1851'.
- 1,851 Circulate hole clean @ 1851'.
- 1,851 Wipe hole from 1851' to 1270'. RIH to 1851'. Circ.
- 2,101 Dir. drill 12.25" hole from 1851' to 2101' @ report time.
(Mud wt. = 9.4 ppg).

OG103

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APR 16 2012

DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES

49

Operator: Aera Energy LLC

Field: *Cat Canyon*

Legal Well Name: FIELD FEE G2

SEC: 32

T: 09N

R: 32W

S.B. B. M.

API: 083-22694

Name: Mark DuFrene

Title: Agent

Date: *4/10/12*

(Person submitting report)

(President, Secretary, or Agent)

Date: Daily Activity:

Mud Weight Report		
SAMPLE TIME:	DEPTH	WEIGHT
23:59	2,101.00	9.40

02/06/2012

Depth: Description:

2,254 Dir. drill 12.25" hole from 2101' to 2254'.
 2,254 Circulate hole clean @ 2254'.
 2,254 POOH from 2254' to change the bit.
 2,254 M/U 12.25" bit #2 and dir. tools.
 2,254 Service rig.
 2,254 RIH to 2254' and circulate.
 2,285 Dir. drill from 2254' to 2285'. Circ.
 2,285 POOH from 2285' to 1980'.
 2,285 Circulate hole clean @ 1980' and unload 9.625" casing.
 2,285 RIH to 2285'.
 2,625 Dir. drill 12.25" hole from 2285' to 2625' (Casing Point).
 2,625 Circulate hole clean @ 2625'.
 2,625 POOH from 2625' and lay down dir. tools @ report time.
 (mud wt. = 9.5 ppg).

Mud Weight Report		
SAMPLE TIME:	DEPTH	WEIGHT
23:59	2,625.00	9.50

02/07/2012

Depth: Description:

2,625 M/U 12.25" hole opener and roller reamer. RIH to 2625'.
 2,625 Circulate hole clean @ 2625'.
 2,625 Wipe hole from 2625' to casing shoe. RIH to 2565'. Stacked out @ 2565'.
 2,625 Ream hole from 2565' to 2625'.
 2,625 Circulate and condition mud for logs @ 2625'. (Mud wt. = 9.4 ppg).
 2,625 POOH from 2625' and lay down roller reamer and bullnose hole opener.
 2,625 HSM/ W Schlumberger loggers and rig crew. Rig up loggers. Ran HRLA/TLD/MCFL/HGNS/ADT/HSTS logs. Ran ECS/HNGS/PPC/CMR/PPC/GR logs @ report time.

Mud Weight Report		
SAMPLE TIME:	DEPTH	WEIGHT
23:59	2,625.00	9.40

02/08/2012

Depth: Description:

2,625 LOGGING, R/D
 2,625 M/U 12.25" BIT, BHA AND RIH FOR CLEAN OUT RUN FOR LOGGING TO TD AT 2625'.
 2,625 CIRC. HOLE CLEAN AND CONDITION MUD FOR LOGGING.
 2,625 POOH FOR LOGGING.
 2,625 HELD HSM WITH SCHLUMBERGER LOGGING. R/U AND RUN PRESSURE POINTS AND SIDE WALL SAMPLES 60 SHOTS AT REPORT TIME.

Mud Weight Report		
SAMPLE TIME:	DEPTH	WEIGHT

OG103

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APR 16 2012

DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES

Operator: Aera Energy LLC

Field: Cat CanyonLegal Well Name: FIELD FEE G2SEC: 32T: 09NR: 32W

S.B. B. M.

API: 083-22694Name: Mark DuFreneTitle: AgentDate: 4/10/12

(Person submitting report)

(President, Secretary, or Agent)

Date: Daily Activity:

:	2,625.00	0.00
23:59	2,625.00	9.40

02/09/2012

Depth: Description:

- 2,625 PRESSURE TSETTING, SIDE WALL SAMPLES R/D
- 2,625 M/U 12.25" BIT, BHA AND RIH TO TD AT 2625'.
- 2,625 CIRC. HOLE CLEAN FOR WIPER TRIP.
- 2,625 WIPE 12.25" HOLE TO 1601', RIH TO 2625'.
- 2,625 CIRC. AND CONDITION MUD TO RUN 95/8" CASING.
- 2,625 POOH TO RUN 95/8" CASING.
- 2,625 SLIP AND CUT TRIPPING LINE.
- 2,605 HS/M WITH GSD TONG OPERATOR. R/U STAGE IN HOLE WITH 95/8".36#,K-55,LT&C CASING. FLOAT SHOE AT 2605', FOLAT COLLAR AT 2557.84', INSTALL 95/8" CASING SWEDGE AND CIRC.
- 2,605 CALLED HALLIBURTON CEMENTING WITH 16 HRS. NOTICE TO BE ON LOCATION READY TO PUMP AT 16:00 KRS. 2/9/2012. HALLIBURTON ARIVED AT 19:30 HRS. 2/9/2012.
- 2,605 SPOT HALLIBURTON CEMENTING. HS/M WITH HALLIBURTON. R/U , PUMPED 2 BBL WATER AHEAD AND TESTED ALL LINES AT 2000 PSI (TEST OK) PUMPED 30 BBL MUD FLUSH, PUMPED HALLIBURTON B-8 CEMENT. 202 BBL, 350 SKS, 1,134 CU/FT, 144 BBL MIX WATER. DROPED 95/8" WIPER PLUG AND DISPLACED WITH, 198 BBL 9.4 PPG DRILLING MUD. BUMPED 95/8" WIPER PLUG AND HELD FOR 3 MIN. BLEED OFF PRESSURE AND FOLATS HELD. CIP AT 122:30 HRS. CEMENT TO SURFACE 20 BBL. YIELD 3.24 CUFT/SK, WATER 17.28 GAL/SK, DENSITY 12 PPG. R/D
- 2,605 INSALL 95/8" CASING SLIPS AND WORK WITH KSI WELDER AND CAMRON SERVICE HAND AT REPORT TIME.

RECEIVED

APR 16 2012

DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES

Casing Report

ASSEMBLY:	<u>9 5/8" Casing</u>	BORE:	00	TOP:	0.00
INSTALL DATE:	2/9/2012	PULL DATE:		BOTTOM:	2,605.00
COMPONENT:		TOP: BOTTOM: JOINTS: SIZE: WEIGHT: GRADE: THREADS:		<u>SLOTS OR PRE-PERFED CASING</u>	
				SIZE: DENSITY: LENGTH: SPACING:	
Casing: Blank	0.00	2,556.34	60	9.625	36.00 K-55 LT&C
Casing Float Collar	2,556.34	2,557.84	1	9.625	
Casing: Blank	2,557.84	2,603.10	1	9.625	36.00 K-55 LT&C
Casing Float Shoe	2,603.10	2,605.00	1	9.625	
ACCESSORIES:					
COMPONENT:	DESCRIPTION:	NUM:	SPACING:	TOP:	BOTTOM: HOW FIXED:
CSCE	Casing Centralizer(s)	28	85.9	38.26	2603.1 CLAMPED

Cementing Report

CEMENT PLACEMENT DATE:	2/9/2012				
ASSEMBLY:	<u>9 5/8" Casing</u>	TOP:	0.00	TOTAL PUMPED (CF):	<u>1,134.1</u>
INSTALL DATE:	2/9/2012	BORE:	00	BOTTOM:	2,605.00
				TOTAL RETURNS (CF):	<u>112.3</u>
STAGE:	1st Stage	CEMENT IN PLACE:	22:30		
TOP PLUG USED?:	Yes	BOTTOM PLUG USED?:	No	BUMP PLUG?:	Yes
BUMP PRESSURE (psi):	1,149	PRESSURE HELD (min):	3	HOLD PRESSURE (psi):	1,149
DISPLACEMENT FLUID:	MUD	DISPLACEMENT VOLUME (cf):	1,111.7 (198.0 bbl)	STAGE EXCESS	35.0 %
SLURRY: LEAD	SLURRY TOP:	11.4	SLURRY BASE:	2,605.0	FOAMED?: No
SLURRY NAME:	B-8 Heavy Oil Slurry	CEMENT CLASS:	CLASS C	CEMENT SACKS:	350.00
SLURRY DENSITY (ppg):	12.0	SLURRY WATER (gal/sk):	18.16	SLURRY YIELD (cf/sk):	3.21
SLURRY PUMPED (cf):	1,134.1	SLURRY PLACED (cf):	1,021.9	SLURRY RETURNS (cf):	112.3 (20.0 bbl)

OG103

47

Operator: Aera Energy LLCField: CAT CanyonLegal Well Name: FIELD FEE G2SEC: 32T: 09NR: 32W

S.B. B. M.

API: 083-22694Name: Mark DuFreneTitle: AgentDate: 4/12/12

(Person submitting report)

(President, Secretary, or Agent)

Date: Daily Activity:**Cementing Report**CEMENT PLACEMENT DATE: 2/9/2012ASSEMBLY: 9 5/8" CasingTOP: 0.00TOTAL PUMPED (CF): 1,134.1INSTALL DATE: 2/9/2012BORE: 00BOTTOM: 2,605.00TOTAL RETURNS (CF): 112.3ADDITIVE: AMOUNT: UNIT OF MEASURE:SILICA FLOUR 24.50 % By Weight of Blend**Mud Weight Report**

SAMPLE TIME: DEPTH WEIGHT

23:59 2,625.00 9.40

02/10/2012

Depth: Description:

2,625 NIPPLE DOWN BOPE.

2,625 WORK WITH WELDER AND INSTALL B-SECTION CAMRON WELL HEAD, PRESSURE TEST AT 1616 PSI (TEST OK)

2,625 NIPPLE UP BOPE AND CHOKE MANIFOLD. (CALLED DOGGR TALKED WITH JOHN IVERSON AND BOPE TEST WAS WAVED)

2,625 M/U 8.75" BIT, BHA AND RIH TO 965'.

2,625 PRESSURE TEST BOPE AND CHOKE MANIFOLD AT 500 PSI. (TEST OK)

2,558 RIH TO TOP 95/8" FLOAT COLLAR AT 2557.84'

2,625 DRILL OUT 95/8" FLOAT COLLAR AT 2557.81', CLEAN OUT CEMENT TO 2605' 95/8" FLOAT SHOE. DRILL OUT FLOAT SHOE AT 2605' AND RIH TO 2625'.

2,625 CIRC. AND CONDITION MUD FOR CORING.

2,630 DRILLING AHEAD FROM 2625' TO 2630' TO CORE POINT.

2,630 CIRC. HOLE CLEAN FOR CORING.

2,630 POOH FOR CORING.

2,630 SERVICE DRILLING RIG.

2,630 HS/M WITH QUESTCORING. MEASURE AND M/U 7.875" CORE BARREL AND RIH TO 2630'.

2,650 CUT CORE #1 FROM 2630' TO 2650' = 20'.

2,650 POOH WITH CORE #1 AT REPORT TIME.

Mud Weight Report

SAMPLE TIME: DEPTH WEIGHT

: 2,650.00 0.00

23:59 2,650.00 9.40

23:59 2,625.00 9.40

02/11/2012

Depth: Description:

2,650 POOH WITH CORE #1, RECOVERY 19.4'.

2,650 M/U CORE #2 AND RIH TO 2650'.

2,650 CIRC. HOLE CLEANH AND DROP BALL TO SHIFT SLEVE.

2,670 CUT CORE #2 FROM 2650' TO 2670' = 20'

2,670 POOH WITH CORE #2, RECOVERY 20'.

2,670 SERVICE DRILLING RIG.

2,670 M/U CORE #3 AND RIH TO 2670'.

2,670 CIRC. HOLE CLEANH AND DROP BALL TO SHIFT SLEVE.

2,670 CUT CORE #3 FROM 2670' TO 2690'=20'.

RECEIVED

APR 16 2012

DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES

Operator: Aera Energy LLC

Field: Cat Canyon

Legal Well Name: FIELD FEE G2

SEC: 32

T: 09N

R: 32W

S.B. B. M.

API: 083-22694

Name: Mark DuFrene

Title: Agent

Date: 4/12/12

(Person submitting report)

(President, Secretary, or Agent)

Date: Daily Activity:

2,670 POOH WITH CORE #3, RECOVERY 21.5'
2,670 M/U CORE #4 AND RIH TO 2670'.
2,670 CIRC. HOLE CLEANH AND DROP BALL TO SHIFT SLEVE.
2,710 CUT CORE #4 FROM 2670' TO 2710'=20'.
2,710 POOH WITH CORE #4 AT REPORT TIME.

Mud Weight Report

SAMPLE TIME:	DEPTH	WEIGHT
:	2,710.00	0.00
23:59	2,650.00	9.40
23:59	2,710.00	9.50

02/12/2012

Depth: Description:

2,710 POOH WITH CORE #4, RECOVERY 21'.
2,710 M/U CORE #5 AND RIH TO 2710'.
2,710 CIRC. HOLE CLEANH AND DROP BALL TO SHIFT SLEVE.
2,730 CUT CORE #5 FROM 2710' TO 2730'=20'.
2,730 POOH WITH CORE #5, RECOVERY 21'.
2,730 M/U CORE #6.
2,730 SERVICE DRILLING RIG.
2,730 RIH TO 2730'.
2,730 CIRC. HOLE CLEANH AND DROP BALL TO SHIFT SLEVE.
2,750 CUT CORE #6 FROM 2730' TO 2750'=20'.
2,750 POOH WITH CORE #6, RECOVERY 20.8'.
2,750 M/U CORE #7, AND RIH AT REPORT TIME.

Mud Weight Report

SAMPLE TIME:	DEPTH	WEIGHT
23:59	2,710.00	9.50

02/13/2012

Depth: Description:

2,750 RIH TO 2750'.
2,750 CIRC. HOLE CLEANH AND DROP BALL TO SHIFT SLEVE.
2,770 CUT CORE # 7 FROM 2750' TO 2770'=20'.
2,770 POOH WITH CORE #7, RECOVERY 20.7'.
2,770 M/U CORE #8 AND RIH TO 2770'.
2,770 CIRC. HOLE CLEANH AND DROP BALL TO SHIFT SLEVE.
2,790 CUT CORE #8 FROM 2770' TO 2790'=20'.
2,790 POOH WITH CORE #8, RECOVERY 21.7'.
2,790 M/U CORE #9.
2,790 SERVICE DRILLING RIG.
2,790 RIH WITH CORE #9 TO 2790'.
2,790 CIRC. HOLE CLEANH AND DROP BALL TO SHIFT SLEVE.
2,810 CUT CORE #9 FROM 2790' TO 2810'=20'.
2,810 POOH WITH CORE #9 AT REPORT TIME.

Mud Weight Report

SAMPLE TIME:	DEPTH	WEIGHT
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OG103

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APR 16 2012

DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES

Operator: Aera Energy LLCField: Cat CanyonLegal Well Name: FIELD FEE G2SEC: 32T: 09NR: 32W

S.B. B. M.

API: 083-22694Name: Mark DuFreneTitle: AgentDate: 4/12/12

(Person submitting report)

(President, Secretary, or Agent)

Date: Daily Activity:

:	2,810.00	0.00
23:59	2,810.00	9.50
23:59	2,710.00	9.50

02/14/2012

Depth: Description:

2,810 POOH WITH CORE # 9 , RECOVER 20'.
2,630 M/U 8.75" BULL NOSE FIXED OPENER AND ROLLER REAM AND RIH TO 2630'.
2,810 OPEN 7.875" HOLE TO 8.75" FROM 2630' TO 2810'.
2,810 CIRC. HOLE CLEAN FOR WIPER TRIP.
2,810 POOH TO 95/8" CASING SHOE AT 2605'.
2,810 SERVICE DRILLING RIG.
2,810 RIH TO 2810'.
2,810 CIRC. HOLE CLEAN FOR DIRECTIONAL TOOLS.
2,810 POOH FOR DIRECTIONAL TOOLS.
2,810 LOAD OUT GESTCORING TOOLS.
2,810 BRING DIRECTIONAL TOLLS TO RIG. FROM TRAILER, MEASURE AND CALBERATE.
2,810 M/U DIRECTIONAL TOOLS AND RIH SURVEYING FROM 2630' TO 2810'.
2,810 CIRC. HOLE CLEAN.
2,810 DIRECTIONAL DRILLING (LOST PUMP PRESSURE NOT ABLE TO DIRECTIONAL DRILL, POOH TO CHECK OF WASH OUTS AND DIRECTIONAL MUD MOTOR)
2,810 POOH TO CHECK DRILL PIPE AND DIRECTIONAL TOOLS (NO WASH OUT IN DRILL PIPE OR BHA, CHANGE OUT DUMP VALVE ON MUD MOTOR AT REPORT TIME.

Mud Weight Report

SAMPLE TIME:	DEPTH	WEIGHT
:	2,810.00	0.00
23:59	2,810.00	9.40
23:59	2,810.00	9.50

02/15/2012

Depth: Description:

2,810 RIH TO 2810' (LOW PUMP PREASURE NOT ABLE TO DIRECTIONAL DRILL)
2,810 POOH AND LAY DOWN DIRECTIONAL TOOLS.
2,810 LOAD OUT DIRECTIONAL TOOLS TO TAKE TO GEOGUIDANCE YARD IN BAKERSFIELD.
2,810 SERVICE DRILLING RIG.
2,810 M/U 8.75" BIT, BHA AND RIH TO 2810'.
2,960 DRILLING 8.75" HOLE FROM 2810' TO TD AT 2960'. (PROJECTED SURVEY TO TD FROM 2810')
2,960 CIRC. HOLE CLEAN FOR SHORT WIPER TRIP FOR LOGGING.
2,960 WIPE 8.75" HOLE TO 2605' *95/8" CASING SHOE AND RIH TO TD AT 2960'.
2,960 CIRC. HOLE CLEAN AND CONDITION MUD FOR LOGGING.
2,960 POOH FOR LOGGING.
2,960 HS/M WITH SCHLUMBERGER LOGGING, R/U AND RUN PEX, DMR, LOGS AT REPORT TIME.

Mud Weight Report

SAMPLE TIME:	DEPTH	WEIGHT
23:59	2,810.00	9.40

02/16/2012

Depth: Description:

2,960 LOGGING ECS, FML R/D
2,960 M/U 8.75" BIT , BHA AND RIH TO TD AT 2960'.

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APR 16 2012

DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES

Operator: Aera Energy LLCField: CA+ CanyonLegal Well Name: FIELD FEE G2SEC: 32T: 09NR: 32W

S.B. B. M.

API: 083-22694Name: Mark DuFreneTitle: AgentDate: 4/12/12

(Person submitting report)

(President, Secretary, or Agent)

Date: Daily Activity:

2,960 CIRC. HOLE CLEAN FOR LOGGING.

2,960 POOH FOR LOGGING.

2,960 HS/M WITH SCHLUMBERGER LOGGING. R/U AND RIH TO 2960' RUN, X/T, CML AT REPORT TIME.

Mud Weight Report

SAMPLE TIME:	DEPTH	WEIGHT
23:59	2,810.00	9.40

02/17/2012

Depth: Description:

2,960 LOGGING RUN CMR.60 SIDE WLL SAMPLES, R/D

2,960 M/U 8.75" BIT , BHA AND RIH TO TD AT 2960'.

2,960 CIRC. HOLE CLEAN AND CONDITION MUD TO RUN 5.5" LINER./

2,960 UNLOAD AND MEASURE 5.5" LINER./

2,960 POOH TO RUN 5.5" LINER.

2,960 HS/M WITH GSD TONG OPERATOR. R/U AND RUN 5.5", 15.5#, K-55, LT&C LINER. TD AT 2960', FILL EVERY 8 JTS, STOP AND CIRC. AT 2566', RIH TO TD AT 2960'.

2,960 KELLY UP AND TAG TD AT 2960', CIRC. HOLE CLEAN FOR CEMENTING LINER HANGER.

2,960 SPOT HALLIBURTON CEMENTING , R/U. PUMP 2 BBL WATER AHEAD AND TEST ALL LINES AT 4000 PSI (TEST OK)

2,938 POOH TO SET 5.5" LINER FLOAT SHOE AT 2938', SET CASING SLIPS, RELEASE FROM 5.5" LINER.
(5.5" LINER FLOAT SHOE AT 2938', FLOAT COLLAR AT 2892.61', LANDING /SETTING COLLAR AT 2848.47', PBMD.

2,938 BLOW BALL SEAT AT 2800 PSI, START CEMENT JOB

2,938 PUMPED 30 BBL MUD FLUSH AT 5 BBM, PUMPED 46 BBL, 93 SKS, 19 BBL MIX WATER, BEGIN INJECTING SUPER CBL/EXP, ACCORDING TO INJECTION RATE SCHEDULE, WASHED PUMPS AND LINES WITH FRESH WATER, DROPPED 5.5" LATCH DOWN WIPER PLUG AND DISPLACED WITH 3% KCL FLUID, 28BBL TO TOP 5.5" LINER, PREASURED UP TO 4400 PSI AND PUMPED THREW AND DISPLACE WITH 10 BBL BUMP 5.5" LATCH DOWN PLUG AY 880 PSI, HELD FOR 5 MIN. BLEED OFF PREASURE AND FLOATS HELD, CIP AT 22:00 HRS. YIELD DOWN HOLE 2.53 CU/FT/SK, WATER 8.58 GAL/SK, DENSITY DOWN HOLE 11 PPG.

2,938 PULL OUT OF PBR AND CHANGE HOLE OVER TO 3% KCL FLUID, CIRC. OUT 11 BBL CEMENT.

2,938 HS/M AND R/U TO LAY DOWN BHA AT RTEPORT TIME.

Liner ReportASSEMBLY: 5 1/2" Production LinerBORE: 00TOP: 2,404.48INSTALL DATE: 2/17/2012

PULL DATE:

BOTTOM: 2,938.00

COMPONENT:

TOP: BOTTOM: JOINTS: SIZE: WEIGHT: GRADE: THREADS:

SLOTS OR PRE-PERFED CASING

SIZE: DENSITY: LENGTH: SPACING:

	2,404.48	2,404.48	1				
Liner Seal Adapter	2,404.48	2,413.83	1	5.500		LT&C	
Liner Landing Nipple	2,413.83	2,416.46	1	5.500		LT&C	
Liner Hanger	2,416.46	2,421.41	1	5.500			
Liner Crossover	2,421.41	2,422.79	1	5.000			
Liner: Blank	2,422.79	2,848.77	10	5.500	15.50	K-55	LT&C
Liner Latch Collar	2,848.77	2,849.73	1	5.500			LT&C
Casing: Blank	2,849.73	2,892.91	1	5.500	15.50	K-55	LT&C
Liner Float Collar	2,892.91	2,894.09	1	5.500			LT&C
Liner: Blank	2,894.09	2,936.50	1	5.500	15.50	K-55	LT&C
Liner Float Shoe	2,936.50	2,938.00	1	5.500			LT&C

ACCESSORIES:

COMPONENT:	DESCRIPTION:	NUM:	SPACING:	TOP:	BOTTOM:	HOW FIXED:
LNCE	Liner Centralizer(s)	3	172.5	2633.05	2892.91	CLAMPED

RECEIVED

APR 16 2012

DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES

Operator: Aera Energy LLC

Field: CAT Canyon

Legal Well Name: FIELD FEE G2

SEC: 32

T: 09N

R: 32W

S.B. B. M.

API: 083-22694

Name: Mark DuFrene

Title: Agent

Date: 4/12/12

(Person submitting report)

(President, Secretary, or Agent)

Date: Daily Activity:

Cementing Report

CEMENT PLACEMENT DATE: 2/17/2012

ASSEMBLY: 5 1/2" Production Liner

INSTALL DATE: 2/17/2012

BORE: 00

TOP: 2,404.48

TOTAL PUMPED (CF): 258.3

BOTTOM: 2,938.00

TOTAL RETURNS (CF): 61.8

STAGE: 1st Stage

CEMENT IN PLACE: 22:00

TOP PLUG USED?: Yes

BOTTOM PLUG USED?: No

BUMP PLUG?: Yes

FLOAT HELD?: Yes

BUMP PRESSURE (psi): 880

PRESSURE HELD (min): 5

HOLD PRESSURE (psi): 880

DISPLACEMENT FLUID: KCL

DISPLACEMENT VOLUME (cf): 207.7 (37.0 bbl)

STAGE EXCESS 0.0 %

SLURRY: LEAD

SLURRY TOP: 2,404.5

SLURRY BASE: 2,938.0

FOAMED?: No

SLURRY NAME: B-2 500 psi (mod. 2007)

CEMENT CLASS: CLASS C

CEMENT SACKS: 93.00

SLURRY DENSITY (ppg): 11.0

SLURRY WATER (gal/sk): 8.58

SLURRY YIELD (cf/sk): 3.58

SLURRY PUMPED (cf): 258.3

SLURRY PLACED (cf): 196.5

SLURRY RETURNS (cf): 61.8 (11.0 bbl)

Mud Weight Report

SAMPLE TIME: DEPTH WEIGHT

23:59 2,810.00 9.40

02/18/2012

Depth: Description:

2,938 LAY DOWN BHA.

2,938 NIPPLE DOWN BOPE AND CHOKE MANIFOLD AND INSTALL C SECTION WELL HEAD.

2,960 SECURE WELL AND RELEASE RIG. AT 08:00 HRS. 2/18/2012.

Mud Weight Report

SAMPLE TIME: DEPTH WEIGHT

23:59 2,810.00 9.40

Rig Release

BORE: RIG RELEASE

DATE: TIME:

00 2/18/2012 08:00

02/19/2012

Depth: Description:

2,960 LOAD OUT PERMIT LOADS ON TRAILERS TO MIRU COALINGA 2/22/2012.

Mud Weight Report

SAMPLE TIME: DEPTH WEIGHT

23:59 2,810.00 9.40

RECEIVED

APR 16 2012

DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES

Field Fee G2

LOG LIST

- ✓ Combinable Magnetic Resonance GR 2669.5'-2918' ran 02/16/12
- Combinable Magnetic Resonance Tool GR ran 02/07/12
- ✓ Platform Express HRLA/TLD/MCFL/HGNS/HSTS/ADT 2605'-2953' ran 02/15/12
- Platform Express HRLA/TLD/MCFL/HGNS/HSTS/ADT ran 50'-2617'
- ✓ Hostile Environment Natural Gamma Ray 2605'-2951' ran 02/16/12
- Hostile Environment Natural Gamma Ray 582'-2617' ran 02/07/12
- ✓ SCMT Cement Bond Log RST (No Sigma) GR/CCL Temp 2400'-2826'
- ✓ Elemental Capture Sonde GR 2605'-2951' ran 02/16/12
- ✓ Elemental Capture Spectroscopy GR 582'-2617' ran 02/07/12
- ✓ Ultrasonic Imager CCL 28'-2390'
- Xpress Pressure Tester Gamma Ray Tie in 2918'-02960' ran 02/16/12
- Xpress Pressure Tester Gamma Ray Tie in ran 02/08/12
- ✓ Formation Micro Imager GR 582'-2607' ran 02/08/12
- ✓ Formation Micro Imager GR 2605'-2957' ran 02/16/12
- ✓ Chronological Sample Taker GR Tie In 614'-2608' ran 02/08/12
- ✓ Chronological Sample Taker GR Tie In 2639.5' - 2929.5' ran 02/17/12
- ✓ Sidewall Core Analysis Results dated 03/20/12 ✓
- ✓ Sidewall Core Analysis Results dated 03/16/12 ✓
- ✓ Final Plot ✓

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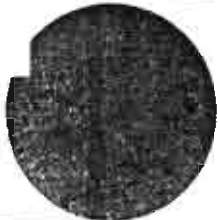
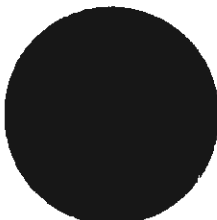

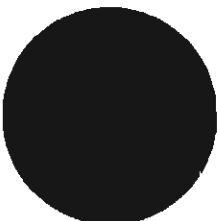
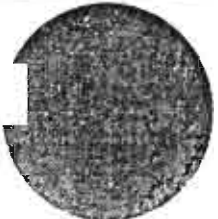
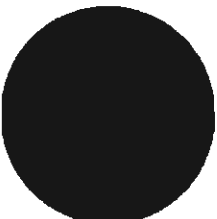

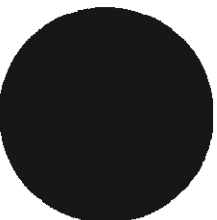
Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' K.B.
Drlg Fluid: Polymer/WBM

File No.: 57111-212101AE
API No.: 04-083-22694
Date: 3/20/2012

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Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec In	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		1	614.0	1.5	0.6	42.0	6.3	93.2	0.07	99.5	2.48	19.7	1
<p style="text-align: center;"><i>Top Poxen 450 ±</i></p> <p>Mdst brn vslty l stn no vis flor</p>													
		2	640.5	2.0	41.1	33.1	2.3	97.3	0.02	99.6	2.57	29.9	1
<p>Sd brn vfgr vslty cly lsp stn no vis flor</p>													
		3	655.5	2.0	8.1	34.4	3.7	95.5	0.04	99.2	2.58	25.7	1
<p>Slit lbrn vclty lsp stn no vis flor</p>													
		4	660.0	1.4	275.8	33.3	1.8	97.7	0.02	99.5	2.62	24.2	1
<p>Sd gy-lbrn vfgr slty-sslty lsp stn no vis flor</p>													

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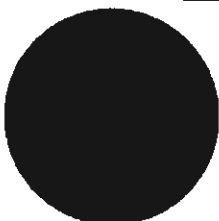

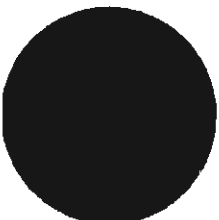

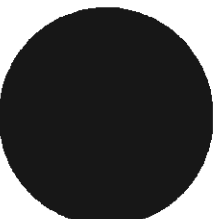

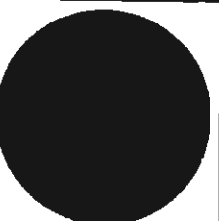


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' K.B.
Drlg Fluid: Polymer/WBM

File No.: 57111-212101AE
API No.: 04-083-22694
Date: 3/20/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec in	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		5	735.0	1.4	103.6	33.4	3.8	92.0	0.04	95.8	2.61	17.7	1
Sd gy-lbrn vf-fgr slty lsp stn no vis flor													
		6	738.0	1.4	0.8	51.5	3.4	96.2	0.03	99.5	2.40	16.5	1
Diat lbrn slty shly scalc lsp stn no vis flor													
		7	760.0	1.5	136.7	33.8	1.0	98.5	0.01	99.5	2.60	23.7	1
Sd gy-lbrn vfgr slty cly lams lsp stn no vis flor													
		8	761.0	1.8	162.7	32.6	3.1	94.0	0.03	97.1	2.61	26.9	1
Sd lbrn vfgr slty scly lsp stn no vis flor													


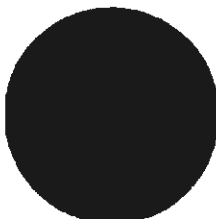

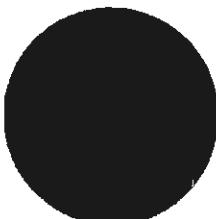

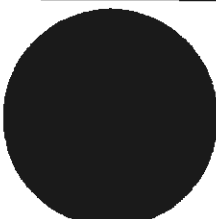

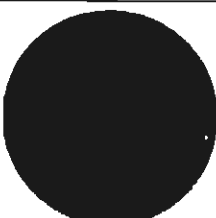


Company: Aera Energy, LLC
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File No.: 57111-212101AE
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Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec in	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		9	772.0	0.6	<5.0	51.2	2.4	87.6	0.03	90.0	2.35	9.0	2
Diat lbrn slty vclly lsp stn no vis flor													
		10	780.0	1.4	<5.0	42.2	3.1	92.2	0.03	95.3	2.48	21.2	2
Mdst lbrn vslty lsp stn no vis flor													
		11	792.5	0.5	<5.0	39.4	3.0	91.7	0.03	94.7	2.50	13.0	2
Mdst brn vslty sdy lsp stn no vis flor													
		12	818.0	1.7	331.9	32.8	3.6	91.2	0.04	94.8	2.61	24.3	1
Sd brn vf-fgr slty-sslty lsp stn no vis flor													

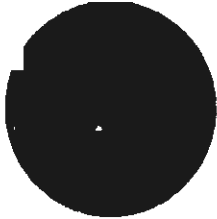
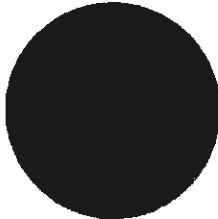

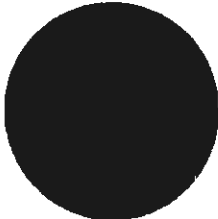
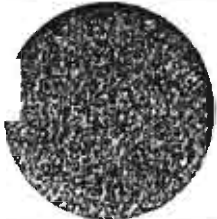
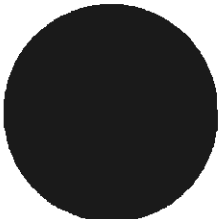
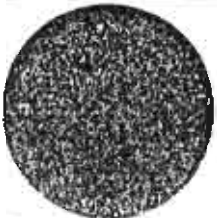
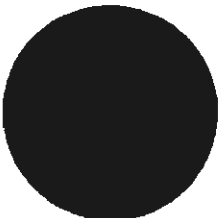


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' K.B.
Drilg Fluid: Polymer/WBM

File No.: 57111-212101AE
API No.: 04-083-22694
Date: 3/20/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec In	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		13	821.5	1.8	23.4	43.1	5.0	93.5	0.05	98.5	2.46	11.8	1
Slit brn sdy vclly mica lsp stn no vis flor													
		14	883.5	1.4	317.7	33.1	3.8	94.0	0.04	97.7	2.61	23.2	1
Sd gy-lbrn vf-fgr slty-sslty lsp stn no vis flor													
		15	896.5	1.5	707.4	34.8	3.0	86.6	0.04	89.6	2.61	22.9	1
Sd gy-lbrn vf-fgr sslty lsp stn no vis flor													
		16	898.5	1.5	296.3	31.7	4.2	93.5	0.05	97.7	2.62	21.8	1
Sd gy-lbrn vf-fgr slty-sslty lsp stn no vis flor													

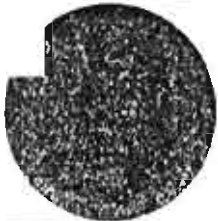
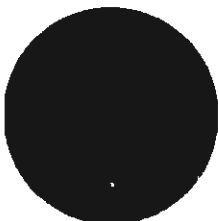

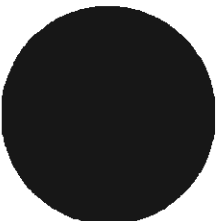

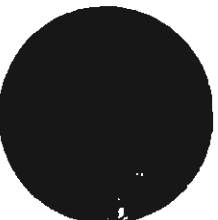

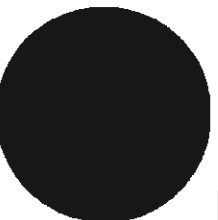


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' K.B.
Drlg Fluid: Polymer/WBM

File No.: 57111-212101AE
API No.: 04-083-22694
Date: 3/20/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec In	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		17	914.5	1.3	288.3	32.1	5.4	77.4	0.07	82.8	2.62	21.4	1
Sd gy-lbrn vf-fgr slty-ssltly lsp stn no vis flor													
		18	917.5	0.4	<1.0	31.3	2.8	94.0	0.03	96.7	2.25	4.3	2
Cht dbrn slty l stn no vis flor													
		19	919.0	0.3	<5.0	45.5	6.1	87.6	0.07	93.8	2.32	4.3	2
Mdst brn slty diat lsp stn no vis flor													
		20	924.0	1.0	<5.0	46.1	10.7	66.8	0.16	77.5	2.40	8.0	2
Mdst brn slty diat l stn no vis flor													


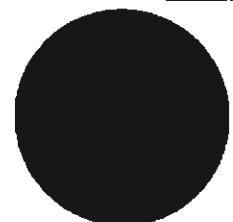

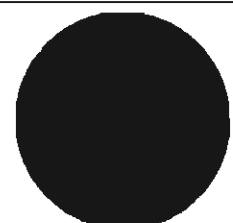
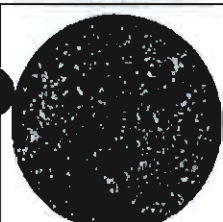
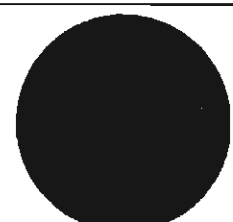

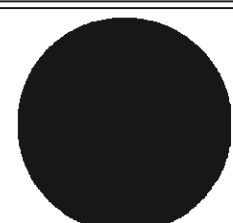


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Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec In	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		21	932.0	1.5	220.3	31.6	1.7	84.4	0.02	86.1	2.62	26.4	1
Sd gy-lbrn vf-fgr slty-sslty lsp stn no vis flor													
		22	945.0	1.7	228.2	32.0	3.0	82.8	0.04	85.8	2.63	28.1	1
Sd gy-lbrn vf-fgr slty-sslty lsp stn no vis flor													
		23	1366.0	1.3	68.5	33.2	28.6	65.7	0.43	94.2	2.61	26.7	1
Sd brn vfgr vslty d stn no vis flor													
		24	1373.0	1.1	56.0	27.1	27.8	62.4	0.45	90.2	2.62	17.7	1
Sd brn vf-fgr vslty d stn no vis-vgld flor													

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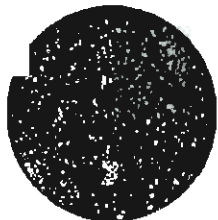
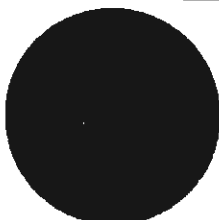

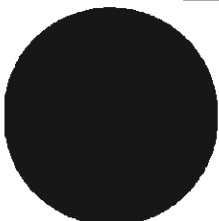

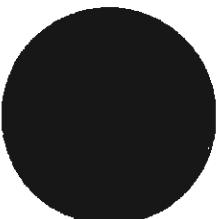
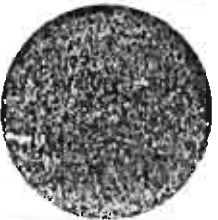
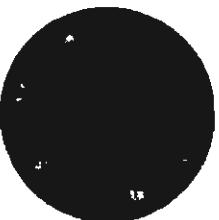


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' K.B.
Drlg Fluid: Polymer/WBM

File No.: 57111-212101AE
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Date: 3/20/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec in	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		25	1377.0	1.4	79.3	31.0	35.4	60.6	0.58	96.0	2.62	23.8	1
Sd dbrn vf-fgr slty-vsly d stn no vis-vgld flor													
		26	1391.5	1.0	1341.1	32.2	63.7	20.6	3.10	84.3	2.61	18.8	1
Sd dbrn vf-fgr sslty d stn no vis-vgld flor													
		27	1393.0	0.9	800.0	33.5	46.7	24.9	1.88	71.6	2.61	9.5	2
Sd dbrn vf-fgr sslty d stn no vis-vgld flor													
		28	1441.0	1.4	53.3	30.6	3.4	86.2	0.04	89.6	2.62	17.9	1
Sd gy-lbrn vfgr vsly fos lsp stn no vis-blu flor													

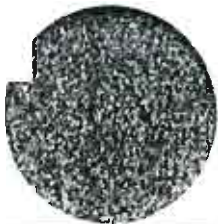
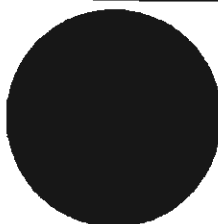
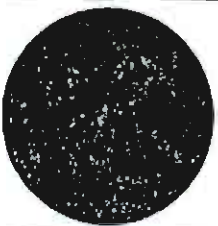
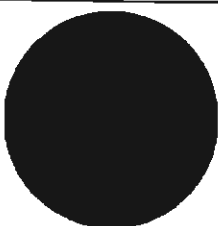






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Core Images		Sample Number	Depth ft	Rec In	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		29	1524.0	1.4	39.2	30.0	3.4	94.7	0.04	98.1	2.61	24.6	1
Sd gy-lbrn vfgr vslty lsp stn no vis flor													
		1567.0	0.9	No analysis requested									
Sd dbrn vfgr slty fos d stn no vis-vdglld flor													
		30	1576.0	1.1	313.7	34.2	53.9	39.5	1.36	93.4	2.60	18.6	1
Sd dbrn vf-fgr slty-sslty d stn no vis-vdglld flor													
		1581.0	0.5	No analysis requested									
Sd dbrn vf-fgr sslty fos d stn no vis-min flor													

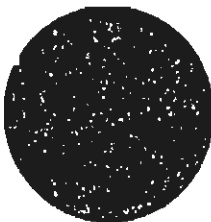
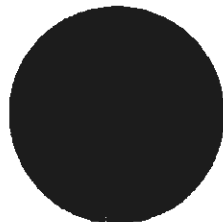

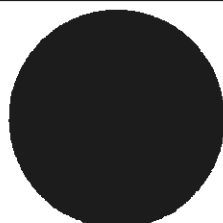
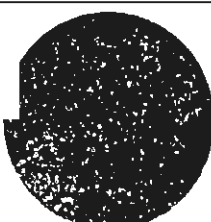
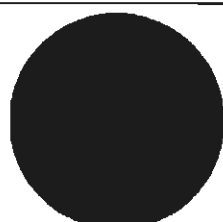
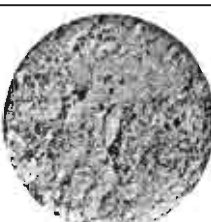
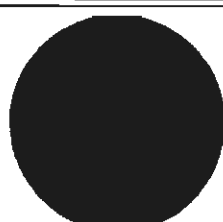


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Field: Cat Canyon

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Elevation: 887' K.B.
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File No.: 57111-212101AE
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Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec in	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		31	1588.0	1.1	108.4	32.8	50.3	47.9	1.05	98.3	2.60	18.3	1
Sd dbrn vfgr slty d stn no vis-vdgl d flor													
		32	1589.5	1.2	169.0	33.0	55.9	41.3	1.35	97.2	2.62	22.4	1
Sd dbrn vfgr slty scl y d stn no vis-vdgl d flor													
		33	1597.5	1.2	158.5	33.4	52.5	43.1	1.22	95.6	2.60	17.0	1
Sd dbrn vfgr slty scl y d stn no vis-vdgl d flor													
		34	1646.0	0.8	<20.0	32.6	1.9	82.1	0.02	84.0	2.59	10.0	2
Sd gy-ltn vfgr vs lty fos cly l sp stn no vis flor													


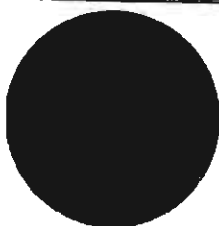
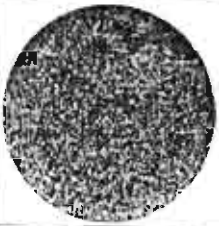
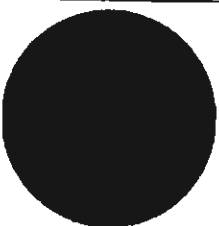


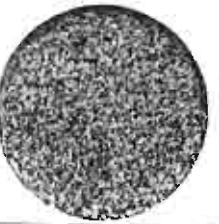
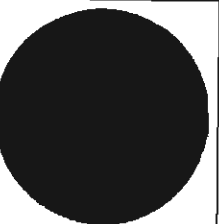


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' K.B.
Drlg Fluid: Polymer/WBM

File No.: 57111-212101AE
API No.: 04-083-22694
Date: 3/20/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec in	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		35	1669.0	0.4	<50.0	19.2	8.3	84.7	0.10	93.0	2.64	8.7	2
Sd gy-brn vfgr vslty vcalc lsp stn no vis flor													
		36	1682.0	0.8	82.3	34.4	2.4	71.6	0.03	74.0	2.60	16.8	1
Sd gy-lbrn vf-fgr slty-vslty lsp stn no vis flor													
		37	1686.0	1.0	<20.0	31.3	1.1	86.0	0.01	87.1	2.58	12.0	2
Sd gy-lbrn vfgr vslty scly lsp stn no vis flor													
		38	1715.0	0.7	20.1	32.7	3.6	79.1	0.05	82.7	2.59	17.1	1
Sd gy-lbrn vfgr vslty scly lsp stn no vis flor													


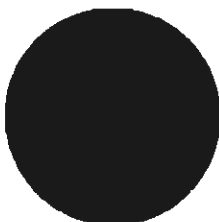
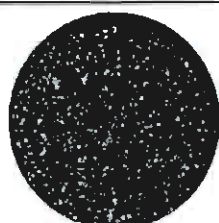
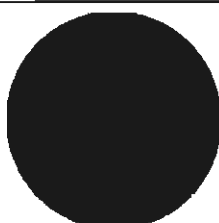

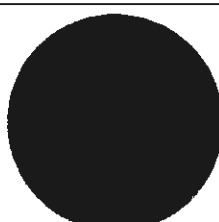

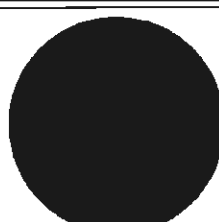


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' K.B.
Drlg Fluid: Polymer/WBM

File No.: 57111-212101AE
API No.: 04-083-22694
Date: 3/20/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec in	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		39	1754.0	1.0	<10.0	28.7	1.1	90.3	0.01	91.3	2.60	13.9	2
Sd gy-ltn vfgr vslty cly lsp stn no vis flor													
		40	1795.0	0.8	120.3	32.3	45.4	46.5	0.98	91.9	2.60	17.6	1
Sd dbrn vf-fgr slty d stn no vis flor													
		41	1848.0	1.4	<50.0	30.7	1.3	82.5	0.02	83.8	2.61	15.5	2
Sd gy-ltn vfgr vslty cly lams lsp stn no vis flor													
		42	1870.0	0.5	<20.0	35.0	1.1	65.4	0.02	66.5	2.57	10.0	2
Sd gy-ltn vfgr vslty cly lsp stn no vis flor													

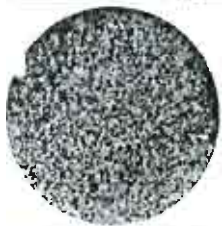
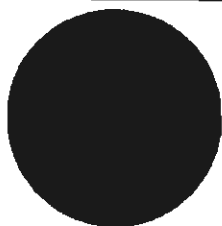

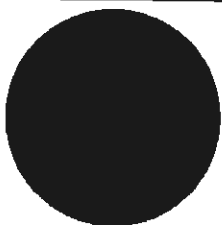
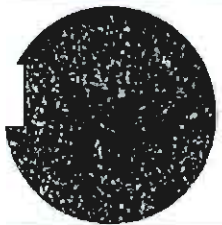
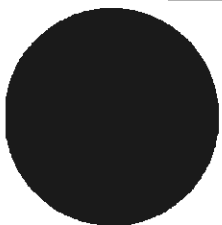
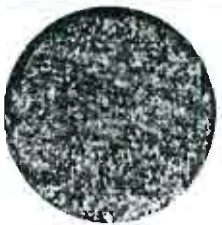
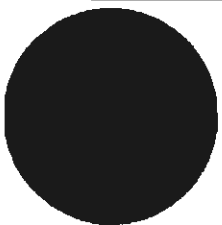


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' K.B.
Drlg Fluid: Polymer/WBM

File No.: 57111-212101AE
API No.: 04-083-22694
Date: 3/20/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec in	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		43	1891.0	1.0	123.8	32.5	1.2	75.4	0.02	76.6	2.59	20.2	1
Sd gy-lbrn vf-fgr slty lsp stn no vis flor													
		44	1941.0	0.6	200.0	33.3	17.9	65.9	0.27	83.7	2.55	11.7	2
Sd dbrn-lbrn vf-fgr slty d-l stn no vis flor													
		45	1944.0	1.0	361.4	33.8	47.2	48.5	0.97	95.7	2.59	18.7	1
Sd dbrn vfgr ssly-sly d stn no vis flor													
		46	1997.0	0.6	<100.0	32.8	12.4	71.7	0.17	84.2	2.56	15.2	2
Sd lbrn-brn vfgr slty smica m-d stn no vis flor													


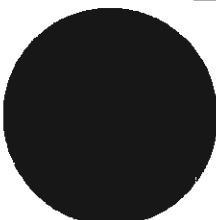

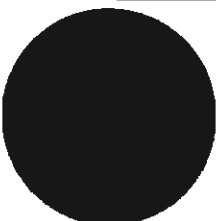

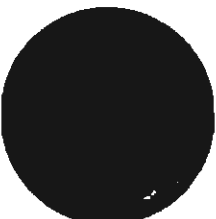
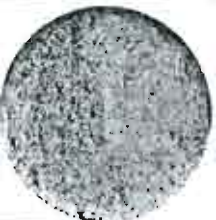
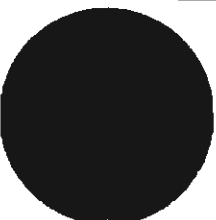


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' K.B.
Drlg Fluid: Polymer/WBM

File No.: 57111-212101AE
API No.: 04-083-22694
Date: 3/20/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec In	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		47	2000.5	0.3	<10.0	21.2	2.3	91.3	0.02	93.5	2.59	4.6	2
Sltst gy-ltn sdy calc lsp stn no vis flor													
		48	2034.0	0.5	<50.0	29.8	0.6	85.5	0.01	86.1	2.54	11.7	2
Sd gy-ltn vfgr vslty lsp stn no vis flor													
		49	2064.0	0.5	<50.0	26.8	0.8	91.3	0.01	92.0	2.54	10.3	2
Sd gy-ltn vfgr vslty scly lsp stn no vis flor													
		50	2095.0	0.6	<50.0	31.5	3.1	79.6	0.04	82.7	2.56	14.4	2
Sd gy-ltn vfgr vslty scly lsp stn no vis flor													


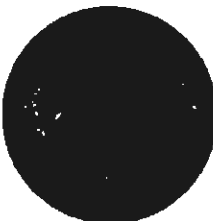
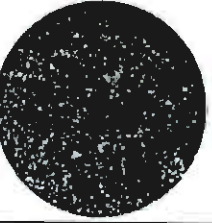
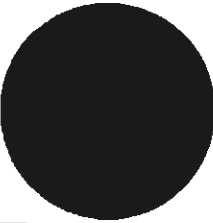
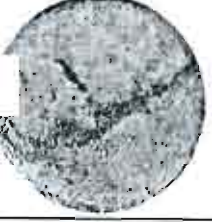
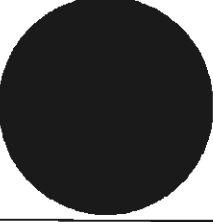
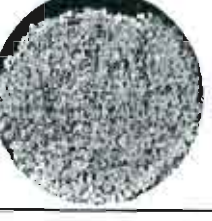
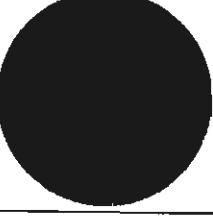


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' K.B.
Drfg Fluid: Polymer/WBM

File No.: 57111-212101AE
API No.: 04-083-22694
Date: 3/20/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec In	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		53	2136.5	0.3	<10.0	16.9	5.4	59.6	0.09	65.0	2.60	2.5	2
Sst gy-brn vfgr vslty calc lsp stn dgl'd flor													
		54	2207.0	0.5	<100.0	31.9	41.3	39.0	1.06	80.4	2.60	8.3	2
Sd dbrn vfgr slty d stn no vis-vdgl'd flor													
		55	2384.0	0.5	<50.0	28.6	0.7	91.7	0.01	92.3	2.56	11.2	2
Sd gy-ltn vfgr vslty scly lsp stn no vis flor													
		56	2517.0	1.0	200.0	31.3	2.0	86.2	0.02	88.3	2.57	16.0	2
Sd gy-ltn vfgr slty scly lsp stn no vis flor													

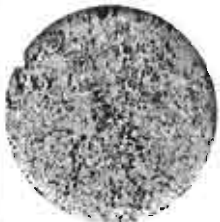
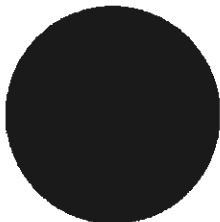

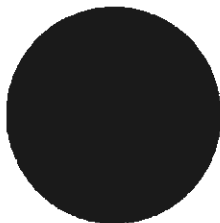

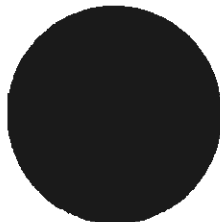
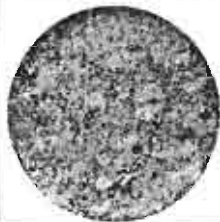
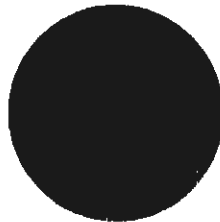


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' K.B.
Drlg Fluid: Polymer/WBM

File No.: 57111-212101AE
API No.: 04-083-22694
Date: 3/20/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec in	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		57	2535.5	0.5	<100.0	30.3	1.3	87.0	0.01	88.2	2.60	10.8	2
Sd gy-ltn vfgr slty-vslty scly lsp stn no vis flor													
		58	2556.0	0.8	<100.0	30.5	3.2	88.4	0.04	91.6	2.60	12.8	2
Sd gy-ltn vfgr slty-vslty scly lsp stn no vis flor													
		59	2575.0	0.6	<50.0	29.9	1.9	86.0	0.02	87.9	2.60	14.6	2
Sd gy-ltn vfgr vslty cly lam lsp stn no vis flor													
		60	2608.0	0.7	<20.0	29.0	2.0	88.7	0.02	90.6	2.60	14.8	2
Sd gy-ltn vfgr vslty vcly lsp stn no vis flor													



Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

File No.: 57111-212101AE
API No.: 04-083-22694
Date: 3/20/2012
Core Type: Sidewall Core

Core Analysis Procedures and Conditions

	Procedure (1)	Procedure (2)	Procedure (3)	Procedure (4)
Sampling Method	Percussion	Percussion	Percussion	Rotary
Drill Coolant	N/A	N/A	N/A	N/A
Jacket Material	Nickel	None	N/A	None
Saturation Method	Dean Stark (Toluene)	Dean Stark (Toluene)	Retort	Dean Stark (Toluene)
Porosity Method				
Grain Volume	Boyle's Law (Helium)	Boyle's Law (Helium)	Bulk Vol-Pore Vol	Boyle's Law (Helium)
Pore Volume	Boyle's Law (Helium)	Bulk Vol-Grain Vol	Summation Of Fluids	Bulk Vol-Grain Vol
Bulk Volume	Pore Vol + Grain Vol	Mercury Displacement	Mercury Displacement	Mercury Displacement
Permeability Method	Air	Empirical	Empirical	Air

Common Conditions

Sleeved Sample Seating Pressure: Depth - 100 Max 750 psig

Confining Pressure Pore Vol & Permeability: 250 psig

Samples Dried At 235 Degrees Fahrenheit

Additional Extraction by Soxhlet with Methylene Chloride/Methanol

Oil Density used in Calculation: 1g/cc



"Brooks" Interval

DOG F

Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' KB
Drlg Fluid: Polymer/WBM

File No.: 57111-212121AE
API No.: 04-083-22694
Date: 3/16/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec In	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			

1	2639.5	0.2	<5.0	26.9	0.0	89.1	0.00	89.1	2.35	6.1	2
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Mdst brn vslty no stn no flor

2649.5

No Sample

2	2659.5	0.3	678.1	36.2	0.0	63.6	0.00	63.6	2.59	14.2	1
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Sd gy vf-fgr sslty-slty no stn no flor

2669.5

No Sample

RECEIVED

APR 16 2012

DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES

"Brooks" Interval

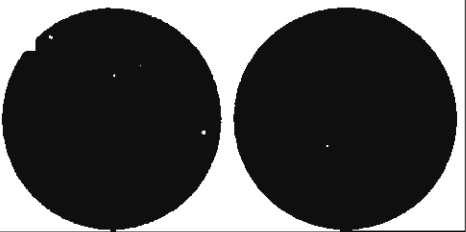
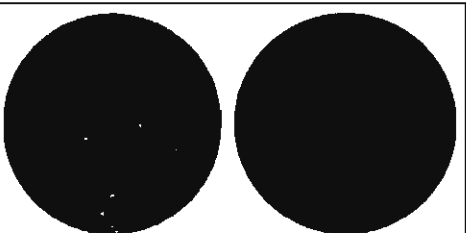
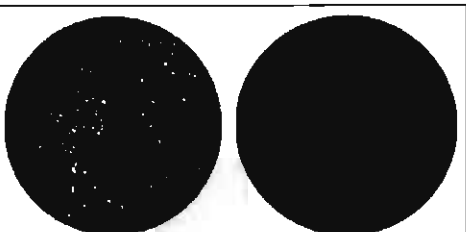


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' KB
Drlg Fluid: Polymer/WBM

File No.: 57111-212121AE
API No.: 04-083-22694
Date: 3/16/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec in	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		3	2675.0	0.3	<5.0	14.1	0.0	99.4	0.00	99.4	2.45	12.3	2
Mdst brn vslty no stn no flor													
		4	2679.5	0.3	<5.0	24.2	0.0	83.8	0.00	83.8	2.37	10.9	2
Mdst brn vslty no stn no flor													
2685.5													
No Sample													
		5	2689.5	1.0	538.6	33.5	59.3	22.0	2.69	81.4	2.62	22.1	1
Sd dbrn vf-fgr sslty d stn vdglid-no vis flor													

"Brooks" Interval

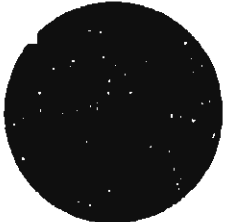
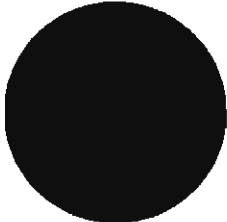

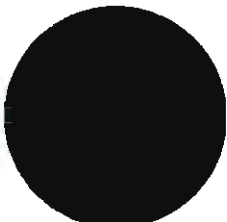
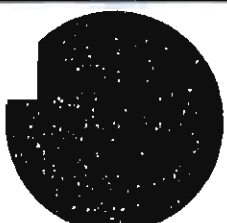
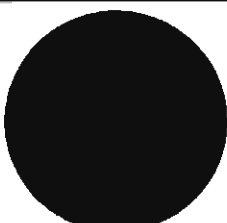
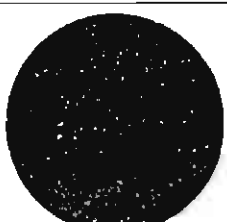
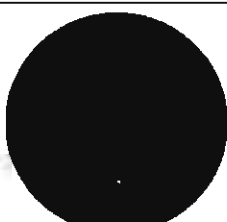


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' KB
Drlg Fluid: Polymer/WBM

File No.: 57111-212121AE
API No.: 04-083-22694
Date: 3/16/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec in	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		6	2694.5	1.1	369.7	34.3	50.1	32.8	1.52	82.9	2.62	22.1	1
Sd dbrn vf-fgr slty d stn vdgld flor													
		7	2699.5	1.1	146.9	32.5	46.2	40.4	1.14	86.7	2.63	17.5	1
Sd dbrn vf-fgr vsilty d stn vdgld flor													
		8	2704.5	0.9	1164.8	33.7	59.8	19.9	3.00	79.8	2.62	21.2	1
Sd dbrn vf-fgr ssilty d stn vdgld flor													
		9	2709.5	1.1	894.9	34.5	57.0	18.4	3.10	75.4	2.62	22.2	1
Sd dbrn vf-fgr ssilty d stn vdgld flor													

"Brooks" Interval

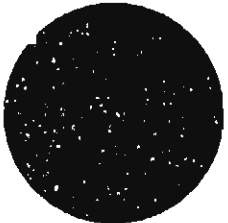
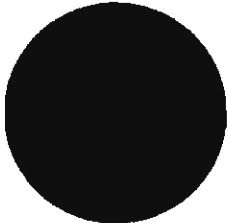
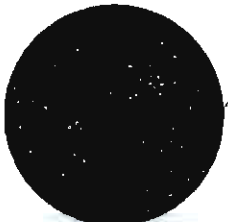
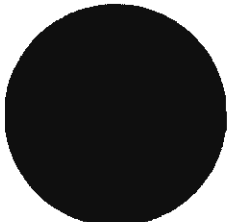

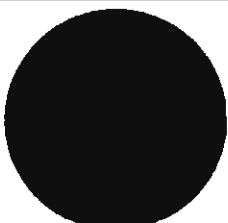
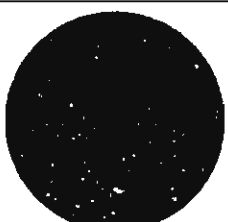
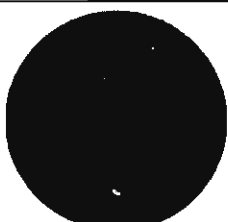


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' KB
Drig Fluid: Polymer/WBM

File No.: 57111-212121AE
API No.: 04-083-22694
Date: 3/16/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec In	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		10	2714.5	1.0	545.5	33.1	55.9	29.7	1.88	85.5	2.62	21.4	1
Sd dbrn vf-fgr slty-sslt d stn vdgl d flor													
		11	2720.5	1.2	378.6	33.2	53.5	20.5	2.60	74.0	2.63	18.5	1
Sd dbrn vf-fgr slty slt lams d stn vdgl d flor													
		12	2725.0	1.3	862.9	32.3	54.8	29.5	1.86	84.4	2.61	22.5	1
Sd dbrn vf-fgr sslty d stn vdgl d flor													
		13	2730.0	1.1	359.2	32.3	54.8	27.1	2.02	81.8	2.62	21.0	1
Sd dbrn vf-fgr slty-slty d stn vdgl d flor													

"Brooks" Interval

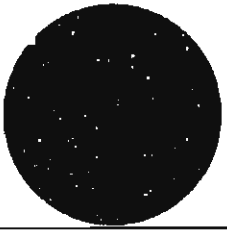
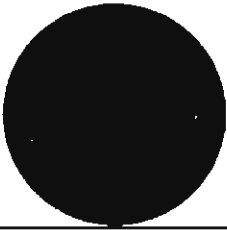

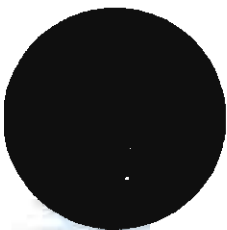
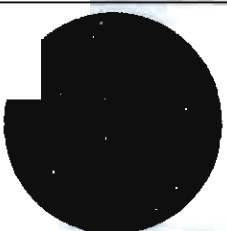
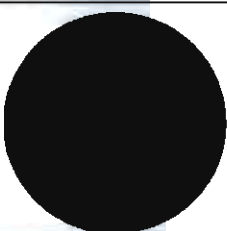
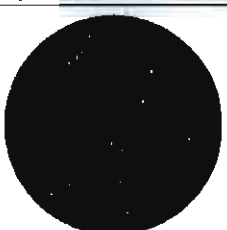
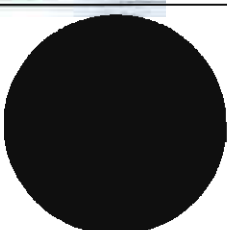


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' KB
Drig Fluid: Polymer/WBM

File No.: 57111-212121AE
API No.: 04-083-22694
Date: 3/16/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec in	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		14	2735.0	1.0	436.7	30.9	51.2	26.0	1.97	77.2	2.61	18.9	1
Sd dbrn vf-fgr sslty-slty d stn vdgl d flor													
		15	2743.5	1.1	1201.7	34.3	49.9	20.3	2.46	70.2	2.61	16.5	1
Sd dbrn vf-fgr sslty d stn vdgl d flor													
		16	2751.0	1.5	509.1	32.1	56.3	29.6	1.91	85.9	2.61	20.5	1
Sd dbrn vfgr sslty-slty d stn vdgl d flor													
		17	2755.5	1.0	800.5	34.2	48.1	22.9	2.10	71.0	2.62	18.1	1
Sd dbrn vfgr sslty d stn vdgl d flor													

"Brooks" Interval

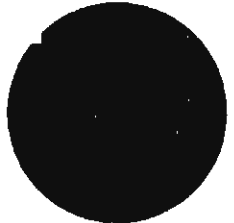
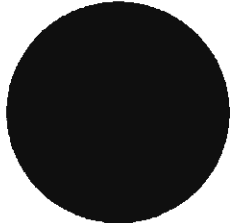
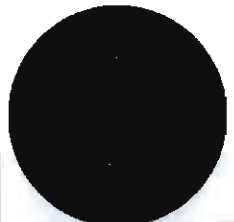
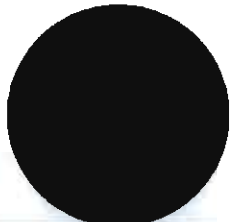
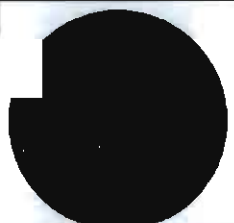
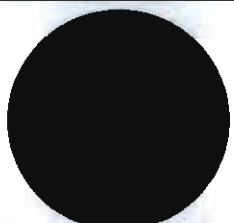
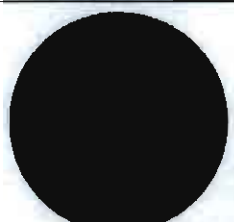
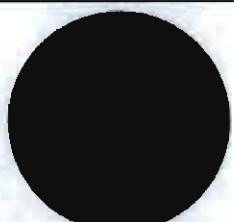


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' KB
Drlg Fluid: Polymer/WBM

File No.: 57111-212121AE
API No.: 04-083-22694
Date: 3/16/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec in	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		18	2770.0	1.0	328.3	31.7	52.6	26.0	2.02	78.6	2.61	21.5	1
Sd dbrn vfgr slty-sslt d stn vdgl d flor													
		19	2773.0	1.0	824.6	32.3	54.0	25.0	2.16	79.0	2.62	20.9	1
Sd dbrn vf-fgr sslty d stn vdgl d flor													
		20	2779.0	1.0	539.5	32.2	50.4	28.2	1.78	78.6	2.61	19.6	1
Sd dbrn vfgr sslty-slty d stn vdgl d flor													
		21	2785.0	1.3	98.8	32.4	30.1	43.0	0.70	73.1	2.60	17.6	1
Sd dbrn-lbrn vfgr vsly scly d-m stn vdgl d flor													

"Brooks" Interval

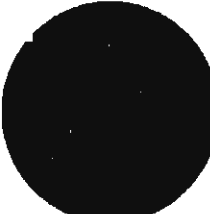
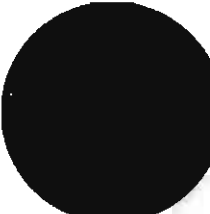
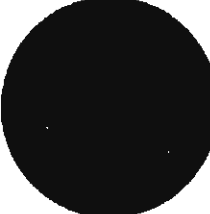
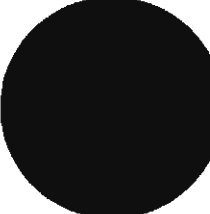

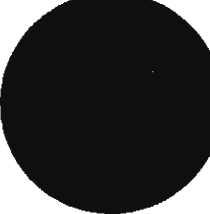

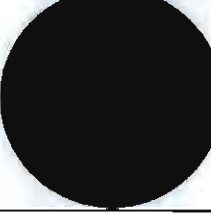


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' KB
Drlg Fluid: Polymer/WBM

File No.: 57111-212121AE
API No.: 04-083-22694
Date: 3/16/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec in	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		22	2835.5	1.4	89.5	34.6	30.1	48.0	0.63	78.1	2.61	16.5	1
Sd dbrn-lbrn vfgr vslty scly mstrk stn vdglld flor													
		23	2844.5	1.6	40.8	33.6	29.4	59.8	0.49	89.2	2.63	22.6	1
Sd brn vfgr vslty scly m-d stn vdglld-no vis flor													
		24	2887.0	1.5	4.7	32.5	2.6	65.5	0.04	68.2	2.60	13.9	1
Sd lbrn-gy vfgr vslty cly lsp stn vdglld flor													
		25	2892.0	0.4	<5.0	23.3	0.0	95.5	0.00	95.5	2.61	11.8	2
Mdst brn vslty no stn no flor													

"Brooks" Interval


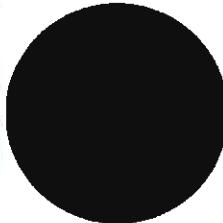

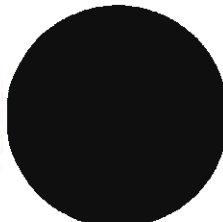


Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

Location: Sec. 32-9N-32W
Elevation: 887' KB
Drlg Fluid: Polymer/WBM

File No.: 57111-212121AE
API No.: 04-083-22694
Date: 3/16/2012

Sidewall Core Analysis Results

Core Images		Sample Number	Depth ft	Rec in	Perm. Kair md	Porosity %	Fluid Saturation				Grain Den g/cc	Sample Wt. g	Method
White Light	UV Light						Oil %	Water %	O/W Ratio	Total %			
		26	2907.0	0.5	<10.0	28.0	0.0	81.8	0.00	81.8	2.59	13.4	2
		Sd gy vfgr vslty vshly no stn no flor											
		27	2929.5	0.6	<5.0	26.5	0.0	77.9	0.00	77.9	2.59	15.1	2
		Slt gy sdy shly no stn no flor											

"Brooks" Interval



Company: Aera Energy, LLC
Well: Field Fee G2
Field: Cat Canyon

File No.: 57111-212121AE
API No.: 04-083-22694
Date: 3/16/2012
Core Type: Sidewall Core

Core Analysis Procedures and Conditions

	Procedure (1)	Procedure (2)	Procedure (3)	Procedure (4)
Sampling Method	Percussion	Percussion	Percussion	Rotary
Drill Coolant	N/A	N/A	N/A	N/A
Jacket Material	Nickel	None	N/A	None
Saturation Method	Dean Stark (Toluene)	Dean Stark (Toluene)	Retort	Dean Stark (Toluene)
Porosity Method				
Grain Volume	Boyle's Law (Helium)	Boyle's Law (Helium)	Bulk Vol-Pore Vol	Boyle's Law (Helium)
Pore Volume	Boyle's Law (Helium)	Bulk Vol-Grain Vol	Summation Of Fluids	Bulk Vol-Grain Vol
Bulk Volume	Pore Vol + Grain Vol	Mercury Displacement	Mercury Displacement	Mercury Displacement
Permeability Method	Air	Empirical	Empirical	Air

Common Conditions

Sleeved Sample Seating Pressure: Depth - 100 Max 750 psig

Confining Pressure Pore Vol & Permeability: 250 psig

Samples Dried At 235 Degrees Fahrenheit

Additional Extraction by Soxhlet with Methylene Chloride/Methanol

Oil Density used in Calculation: 1g/cc

RELEASE OF CONFIDENTIAL FILES

Lease Name & # "Field Fee" G2

Date of Release 3-29-12



- ☒ Give to Engineer if map work is needed
- ☒ Any Update Held – can be sent to IHS Energy Group
- ☒ WellStat – remove as CONFIDENTIAL
- ☒ Remove from 121 computer
- ☒ Line out CONFIDENTIAL in 121 book
- ☒ Write release date next to CONFIDENTIAL on file folder
- ☒ Remove from F:/Clerical/FORMS-MISC./CONFIDENTIAL STATUS.xlsx
- ☒ Remove red sticker and return to Active/Non Active well files

Note: No form needed to send out

NATURAL RESOURCES AGENCY
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
(805) 937-7246

CONFIDENTIAL STATUS REPORT

Mark Du Frene, Agent
Aera Energy LLC
66893 Sargent Canyon Road
San Ardo, CA 93450

Santa Maria, California
March 23, 2012

From: Division of Oil and Gas
5075 S. Bradley Rd., #221
Santa Maria, CA 93454

Subject: ☒ Requests for confidential status dated _____
_____ Request for extension of confidential status dated _____ December 14, 2011, 2012
☐ Subject request is approved.
☐ Subject request is partially approved.
☒ Subject request is denied.

Records approved for confidential status:

Records denied confidential status or extension of confidential status:

WELL NAME AND NUMBER	FIELD OR COUNTY	WILL BECOME PUBLIC
"Victory" G1, G3 & G7	Santa Barbara County	Immediately
"Field Fee" G2	Santa Barbara County	Immediately

Reason for denial: _____

The Division requested additional information to support a request for confidential status in a letter dated February 22, 2012. No supporting documentation was received.

Reason for denial: _____

Remarks: _____

Chrono
Conservation Committee
Confidential File
Update
Well File

Tim Kustic
State Oil and Gas Supervisor

By Patricia A. Abel
Patricia A. Abel, District Deputy

NATURAL RESOURCES AGENCY
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

No. T 312-074

REPORT ON OPERATIONS
CONFIDENTIAL

Mark Du Frene, Agent
Aera Energy LLC
66893 Sargent Canyon Road
San Ardo, CA 93450

Santa Maria, California
February 23, 2012

Your operations at well "Field Fee" G2, API No. 083-22694, Sec. 32, T. 9N, R. 32W, S.B. B.&M., Cat Canyon Field, in Santa Barbara County, were witnessed on 02-10-12, by J. Iverson, representative of the supervisor.


The operations were performed for the purpose of inspecting the blowout prevention equipment and installation.

Decision: **Approved**

Jl:cb

cc: Well file
Santa Barbara County Petroleum

Tim Kustic
State Oil and Gas Supervisor

By 
Patricia A. Abel, District Deputy

BLOWOUT PREVENTION EQUIPMENT MEMO

Operator Aera Energy LLC Well "Field Fee" G2 Sec. 32 T. 09NR. 32W
 Field Cat Canyon County Santa Barbara Spud Date 02/03/2012

VISITS: Date 02/10/12 Engineer J Iverson Time (1430 to 1530) Operator's Rep. Clay Tatman Title Supervisor

2nd () to ()

Contractor Golden State Drilling Rig# 14 Contractor's Rep. & Title Mike Bosco - Tool Pusher

Casing record of well: _____

OPERATION: Testing (inspecting) the blowout prevention equipment and installation. Critical well? Y N ✓

DECISION: The blowout prevention equipment and its installation on the 9 5/8 " casing are approved.

Proposed Well Opns: Drilling MACP: _____ psi

Hole size: 17.5 " fr. 0 ' to 600 ' , 12.25 " to 2,559 ' & 8.75 " to 2,876 '

REQUIRED
BOPE CLASS: II A 2M

CASING RECORD OF BOPE ANCHOR STRING					Cement Details		Top of Cement	
Size	Weight(s)	Grade(s)	Shoe at	CP at	Pumped 202 bbl of Class G cmt		Casing	Annulus
13 3/8"	54.5#	K-55	<u>581</u>		Density of 12 ppg			
9 5/8"	36#	K-55	2,605		Had 20 bbls of cmt rtns to sfc		sfc	2,559'

BOP STACK							TEST DATA						
API Symb.	Ram Size (in.)	Manufacturer	Model or Type	Vert. Bore Size (in.)	Press. Rtg.	Date Last Overhaul	Gal. to Close	Recovery Time (Min.)	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
A		Hydril	GK 12	13 3/8	3k		9.66	2.0		1,000	8	2/10	<u>Function on test</u>

ACTUATING SYSTEM				TOTAL: 9.66		AUXILIARY EQUIPMENT						
Accumulator Unit(s) Working Pressure <u>3,100</u> psi										Connections		
Total Rated Pump Output _____ gpm												
Distance From Well Bore <u>75</u> ft.												
Accum. Manufacturer		Capacity	Precharge	✓	Fill-up Line							
1 Koomey		80 gal.	1,000 psi	✓	Kill Line		2	3k				<u>Function on test</u>
2				✓	Control Valve(s)	1		3k				
CONTROL STATIONS				✓	Check Valve(s)	1		3k				
✓ Manifold at accumulator unit				✓	Aux. Pump Connect.			3k				
Remote at Driller's station				✓	Choke Line		2	3k				
Other:				✓	Control Valve(s)	5		3k				
EMERG. BACKUP SYSTEM				✓	Pressure Gauge							
✓ N ₂ Cylinders		1 L= 55"	2,100	6.44 gal.	✓	Adjustable Choke(s)	2	2	3k			
Other:		2 L= 55"	2,250	7.42 gal.	✓	Bleed Line		3				
		3 L= "		gal.	✓	Upper Kelly Cock						
		4 L= "		gal.	✓	Lower Kelly Cock		4 1/2	3k			
		5 L= "		gal.	✓	Standpipe Valve						
		6 L= "		gal.	✓	Standpipe Press. Gauge						
TOTAL: 13.86 gal.				✓	Pipe Safety Valve		4 1/2	3k				
				✓	Internal Preventer		4 1/2	3k				

HOLE FLUID		Alarm Type		Class	Hole Fluid Type		Weight		Storage Pits (Type & Size)			
MONITORING EQUIPMENT		Audible	Visual									
✓	Calibrated Mud Pit		✓	A	Polytek		9.4		150 bbl			
	Pit Level Indicator			B			ppg					
✓	Pump Stroke Counter		✓									
	Pit Level Recorder			C								
	Flow Sensor											
	Mud Totalizer											
	Calibrated Trip Tank											
	Other:											

REMARKS AND DEFICIENCIES: _____

NATURAL RESOURCES AGENCY
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

No. T 312-073

REPORT ON OPERATIONS
CONFIDENTIAL

Mark Du Frene, Agent
Aera Energy LLC
66893 Sargent Canyon Road
San Ardo, CA 93450

Santa Maria, California
February 23, 2012

Your operations at well "Field Fee" G2, API No. 083-22694, Sec. 32, T. 9N, R. 32W, S.B. B.&M., Cat Canyon Field, in Santa Barbara County, were witnessed on 02-04-12, by C. Kelly, representative of the supervisor.


The operations were performed for the purpose of **testing the blowout prevention equipment and installation.**

Decision: **Approved**

CK:cb

cc: Well file
Santa Barbara County Petroleum

Tim Kustic
State Oil and Gas Supervisor

By 
Patricia A. Abel, District Deputy

API No. 083-22694

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

T 312-073 2**BLOWOUT PREVENTION EQUIPMENT MEMO**

Operator Aera Energy Well "Field Fc" G-2 Sec. T. R.
 Field Cat Canyon County Santa Barbara Spud Date
 VISITS: Date 2-4-12 Engineer CKelly Time 1500 to 1630 Operator's Rep. Harold Kightlinger Title Co. Rep
 1st to
 2nd to
 Contractor GSD Rig # 14 Contractor's Rep. & Title Chad Swanson, DSM
 Casing record of well:

OPERATION: Testing (inspecting) the blowout prevention equipment and installation. Critical well? Y ☐ N ☒
 DECISION: The blowout prevention equipment and its installation on the 13 3/8 casing are approved.

Proposed Well Opns: drilling MACP: psi
 Hole size: 17 1/2 fr. 92 1/2 to to & to REQUIRED BOPE CLASS: IL A 2M

CASING RECORD OF BOPE ANCHOR STRING					Cement Details		Top of Cement	
Size	Weight(s)	Grade(s)	Shoe at	CP at			Casing	Annulus
<u>13 3/8"</u>	<u>54.5</u>	<u>K55</u>	<u>581.09</u>	<u> </u>	<u>B-11 12.2 2.98 cft/sk</u>	<u>125 bbl</u>	<u>541.58</u>	<u>Surf</u>
							<u>25 bbl</u>	

BOP STACK							TEST DATA						
API Symb.	Ram Size (in.)	Manufacturer	Model or Type	Vert. Bore Size (in.)	Press. Rtg.	Date Last Overhaul	Gal. to Close	Recov. Time (Min.)	Calc. GPM Output	psi Drop to Close	Secs. to Close	Test Date	Test Press.
<u>A</u>	<u> </u>	<u>Hydral</u>	<u>GK</u>	<u> </u>	<u>3m</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>10</u>	<u>2/1/12</u>	<u>6000</u>

ACTUATING SYSTEM				TOTAL:		AUXILIARY EQUIPMENT						
Accumulator Unit(s) Working Pressure <u>3000</u> psi												
Total Rated Pump Output <u> </u> gpm												
Distance from Well Bore <u>50 1/2</u> ft.												
Accum. Manufacturer	Capacity	Precharge				No.	Size (in.)	Rated Press.	Connections			Test Press.
									Weld	Flange	Thread	
1 <u>KOOMEY</u>	<u>80</u> gal.	<u> </u> psi					<u>2</u>	<u>3M</u>				<u>6000</u>
2 <u> </u>	<u> </u> gal.	<u> </u> psi					<u>2</u>	<u> </u>				
CONTROL STATIONS												
Elec. <input checked="" type="checkbox"/> Hyd. <input checked="" type="checkbox"/> Pneu. <input checked="" type="checkbox"/>												
Manifold at accumulator unit												
Remote at Driller's station												
Other: <u> </u>												
EMERG. BACKUP SYSTEM												
Press. Wkg. Fluid												
<u>1</u> N ₂ Cylinders	<u>1</u> L= <u>55</u>	<u>2350</u>	gal.									
<u>2</u> Other:	<u>2</u> L= <u>55</u>	<u>2350</u>	gal.									
	<u>3</u> L= <u> </u>	<u> </u>	gal.									
	<u>4</u> L= <u> </u>	<u> </u>	gal.									
	<u>5</u> L= <u> </u>	<u> </u>	gal.									
	<u>6</u> L= <u> </u>	<u> </u>	gal.									
TOTAL: <u> </u> ga												
HOLE FLUID MONITORING												
Alarm Type												
Audible Visual Class												
<u>Calibrated Mud Pit</u>												
<u>Pit Level Indicator</u>												
<u>Pump Stroke Counter</u>												
<u>Pit Level Recorder</u>												
<u>Flow Sensor</u>												
<u>Mud Totalizer</u>												
<u>Calibrated Trip Tank</u>												
Other: <u> </u>												

REMARKS AND DEFICIENCIES:

1000 Bag
2800 Accum
max 1500



DEPARTMENT OF CONSERVATION

Managing California's Working Lands

Division of Oil, Gas, & Geothermal Resources

5075 SO. BRADLEY ROAD • SUITE 221 • SANTA MARIA, CALIFORNIA 93455

PHONE 805 / 937-7246 • FAX 805 / 937-0673 • WEB SITE conservation.ca.gov

February 22, 2012

Mark Du Frene, Agent
Aera Energy LLC
66893 Sargent Canyon Road
San Ardo, CA 93450

Dear Mr. Du Frene:

REQUEST FOR CONFIDENTIAL STATUS – WELLS "VICTORY" G1, G3, G7 & "FIELD FEE" G2

In a letter from you dated December 14, 2011, you requested confidential status be granted to wells "Victory" G1, G3, and G7 and well "Field Fee" G2. You provided two specific reasons: First, that the wells in the Brooks sand were shut in during the 1980's with eventual plugging and abandonment in 2006; and second, that there is still competition for un-leased mineral rights on adjoining properties.

Available information on the division's website discusses the criteria for granting confidential status. To be considered for confidential status, a well must be classified as an exploratory well, or there must be extenuating circumstances (defined in regulation as conditions beyond the control of the operator, preventing the operator from utilizing the competitive advantage from the information obtained from a well). Extenuating circumstances include, but are not limited to active competitive leasing or mineral rights sales in the immediate vicinity of the well; governmental or judicial action delaying oil, gas, or geothermal development; natural disasters; or scarcity of materials and equipment.

The above mentioned wells were drilled within an existing field. The wells were drilled into the Brooks zone which was discovered in 1909 in the East area of Cat Canyon field, and as you indicated in your letter, into an area that had existing wells up until 2006. Therefore, "Victory" G1, G3, G7 and "Field Fee" G2 were not classified as exploratory wells. Active leases exist to the south, west and north of the Victory and Field Fee leases. Further information regarding the contention that there are un-leased mineral rights on adjoining properties is requested.

Please supply this office with the requested information. While you are gathering information the wells will be held in confidential status. If information is not received in this office by March 23, 2012 your request for confidential status will be denied.

Sincerely,

A handwritten signature in black ink, appearing to read 'Patricia A. Abel'.

Patricia A. Abel
District Deputy

PAA:cb

cc: Chrono
Follow-up
Well Files

NATURAL RESOURCES AGENCY
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

No. P 311-492

PERMIT TO CONDUCT WELL OPERATIONS

(Old) Field Code (New)

(Old) Area Code (New)

(Old) Pool Code (New)

Mark DuFrene, Agent
Aera Energy LLC
66893 Sargent Canyon Road
San Ardo, CA 93450

Santa Maria, California
December 30, 2011

Your supplementary proposal to drill well "Field Fee" G2 A.P.I. No. 083-22694,
Section 32, T. 9N, R. 32W, S.B B. & M., Cat Canyon Field, Area, Pool, Santa Barbara
County, dated 12-20-11, received 12-20-11 has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED.

In all other respects, the operations are to be conducted in accordance with provisions outlined in Permit
P311-363, dated **October 3, 2011**.

RB:cb

cc: Santa Barbara County Petroleum
Misty Rogers
Follow-up
Well file

Engineer: Ross Brunetti

Phone: (805) 937-7246

Tim Kustic
State Oil and Gas Supervisor

By P Abel
Patricia A. Abel, District Deputy

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work is completed or the operations have been suspended. Issuance of this permit does not preclude the recipient from the obligation of being in compliance with all applicable Federal, State and Local laws, regulations and ordinances.



NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

P 311-492

FOR DIVISION USE ONLY		
Bond	Forms	
	OGD114	OGD121
Blanket	12-11 or	12-11 or

OG

SUPPLEMENTARY NOTICE

Detailed instructions can be found at: www.conservation.ca.gov/dog/

A notice to the Division of Oil, Gas, and Geothermal Resources, dated 9/26/2011, stating the intention to
DRILL Field Fee G2, API 083-22694
(Drill, Rework, Abandon)

Sec. 32, T. 9N, R. 32W, SB B. & M., Cat Canyon Field,
Santa Barbara County, should be amended because of changed conditions.

The complete casing record of the well(present hole), including plugs and perforations, is as follows:
(Attach wellbore schematics diagram also.)

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DEC 20 2011

DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES

The total depth is _____ feet. The effective depth is _____ feet.

Present completions zone _____ Anticipated completion _____

Present zone pressure _____ Anticipated / existing new zone pressure: _____

We now propose: (A complete program is preferred and may be attached.)

Change casing program:

5 1/2" liner from 2272'-3190' (200' inside 9 5/8" csg)

Cmt will be from 2272'-3190'

Aera Cat Canyon Field Fee G2 sup 12-11 drill.doc

If well is to be redrilled or deepened, show proposed coordinates (from surface location) and true vertical depth
at total depth: _____ feet. _____ and _____ feet. _____

Will the Field and/or Area change: ☐ YES ☒ NO If yes, specify New Field: _____ New Area: _____

The Division must be notified immediately of changes to the proposed operations. Failure to provide a true and accurate representation of the well and proposed operations may cause rescission of the permit.

Name of Operator Aera Energy LLC			
Address P.O. Box 11164		City Bakersfield, CA	Zip Code 93389-1164
Name of Person Filing Notice Mark DuFrene	Telephone Number (661) 665-5294	Signature <i>Mark DuFrene</i>	Date 12/20/2011
Individual to contact for technical questions: Will Thrasher	Telephone Number () 979-3505	E-Mail Address wjthrasher@aeraenergy.com	

This notice and an indemnity or cash bond must be filed, and approval given, before the workover begins. (See the reverse side for bonding information.) If operations have not commenced within one year of the Division's receipt of the notice, this notice will be considered cancelled.



December 14, 2011

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DEC 15 2011

DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES

Mr. Ross Brunetti
Division of Oil, Gas &
Geothermal Resources
5075 South Bradley Road, Suite 221
Santa Maria, CA 93455

Mr. Brunetti:

SUBJECT: REQUEST CONFIDENTIAL STATUS ON ALL WELL RECORDS FOR
FIELD FEE G2, SECTION 30, TOWNSHIP 9N, RANGE 32W
EAST CAT CANYON FIELD

The above well is to be drilled to gather reservoir data for Brooks Sand at 2610 feet measured depth. Although this well lies within the productive limits of the Brooks Sand in the East Cat Canyon field, all Brooks Sand wells have been shut-in since the late 1980's and abandonment of the last Brooks Sand well was in 2006. Aera Energy LLC is evaluating redevelopment of the Brooks Sand and because there is leasing competition in and around the East Cat Canyon Field we request the records for this well be treated as confidential information as allowed by Section 3234 of the public Resources Code.

If you have any questions please contact Allen Langen, Senior Staff Geologist, at (661) 665-5503.

Sincerely,

A handwritten signature in blue ink that reads 'Misty Rogers'.

For
Mark Du Frene, Agent
Aera Energy LLC

NATURAL RESOURCES AGENCY
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

No. P 311-363

PERMIT TO CONDUCT WELL OPERATIONS

128
(Old) Field Code (New)
06
(Old) Area Code (New)
00
(Old) Pool Code (New)

Mark DuFrene, Agent
Aera Energy LLC
66893 Sargent Canyon Road
San Ardo, CA 93450

Santa Maria, California
October 3, 2011

Your proposal to drill well "Field Fee" G2 A.P.I. No. 083-22694, Section 32, T. 9N, R. 32W, S.B B. & M., Cat Canyon Field, East Area, _____ Pool, Santa Barbara County, dated 9-26-11, received 9-27-11 has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. Blowout prevention equipment, as defined by this Division's publication No. M07, shall be installed and maintained in operating condition and meet the following minimum requirements:
 - a. A 6" diverter system on the 20" casing.
 - b. Class II A 2M, with hydraulic controls, on the 13 3/8" casing.
 - c. Class II A 2M, with hydraulic controls, on the 9 5/8" casing.
2. Hole fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
3. Class "G" cement with a minimum of 35% silica flour, or a Division approved equivalent, shall be used for zone plugs to prevent thermal decomposition in active steam zones or where steam injection is anticipated.
4. Once drilled the well location shall be surveyed and the survey shall be filed with this office, latitude and longitude in decimal degrees, to six decimal places, NAD83.
5. No program changes are made without prior Division approval.
6. **THIS DIVISION SHALL BE NOTIFIED TO:**
 - a. **Witness** a test of the installed blowout prevention equipment prior to drilling out the shoe of the 13 3/8" casing.
 - b. **Witness** a test of the installed blowout prevention equipment prior to drilling out the shoe of the 9 5/8" casing.

NOTES:

1. Well operations shall be conducted in compliance with field rule No. 307-026, dated June 12, 2007.
2. Hydrogen sulfide gas (H₂S) is known to be present in this area and adequate safety precautions shall be taken prior to and during well operations.
3. Unlined sumps containing harmful water are not to be located over freshwater bearing aquifers.
4. The Division routinely monitors monthly well production data and if anomalous water production is indicated, remedial action will be ordered.

RB:pd

cc: Santa Barbara County
Well file/Misty Rogers

Engineer: Ross Brunetti

Phone: (805) 937-7246

Elena M. Miller
State Oil and Gas Supervisor

By J.R. Cunningham For:
Patricia A. Abel, District Deputy

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work is completed or the operations have been suspended. Issuance of this permit does not preclude the recipient from the obligation of being in compliance with all applicable Federal, State and Local laws, regulations and ordinances.



NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

NOTICE OF INTENT TO DRILL A NEW WELL

Detailed Instructions can be found at: www.conservation.ca.gov/dog/

FOR DIVISION USE ONLY		
Bond	Forms	
	OGD114	OGD121
Blanket	9/11	9/11

In compliance with Section 3202, Division 3, Public Resources Code, notice is hereby given that it is our intention to commence drilling well Field Fee G2, well type Temp Observation, API 083-22694, (Assigned by Division), Sec. 32, T. 9N, R. 32W, SB B.&M., Cat Canyon Field, Santa Barbara County, Legal description of mineral-right lease, consisting of 640 acres, is as follows: (attach map or plat to scale)

Do mineral and surface lease coincide? **YES** ☒ **NO** ☐ If answer is no, attach legal description of both surface and mineral leases, and maps or plat to scale.

Location of well 1524.0 feet SOUTH along Section ☒ / Property ☐ line and 644.31 feet EAST at right angles to said line from the NORTHWEST corner of Section ☒ / Property ☐ and Lat./Long. in decimal degrees, to six decimal places, NAD 83 format: Latitude 34.834394 Longitude -120.275196

If well is to be directionally drilled, show proposed coordinates (from surface location) and TVD at total depth: 190.21 feet NORTH and 262.83 feet EAST. Estimated true vertical depth 3173.46 feet. Elevation of ground above sea level 876.14 feet. All depth measurements taken from top of KB that is 13 feet above the ground. EL 889 KB

Is this a critical well according to Section 1720(a), California Code of Regulations **YES** ☐ **NO** ☒

Is a California Quality Act (CEQA) document required by a local agency? **YES** ☐ **NO** ☒ If yes, see next page

11LUP-00000-00339

PROPOSED CASING PROGRAM

SIZE OF CASING (INCHES API)	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS	FORMATION PRESSURE (Estimated Maximum)	CALCULATED FILL BEHIND
20"	77.75#	COND	0	80	0-80	37	80
13 3/8"	54.5#	K55 BTC	0	600	0-600	276	600
9 5/8"	36#	K55 LTC	0	2472	0-2472	1137	2472
5 1/2"	15.5#	K55 LTC	0	3190	0-3190	1467	3190

(A complete drilling program is preferred and may be submitted in lieu of the above program.)

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GEOTHERMAL RESOURCES

Estimated depth of base of fresh water: N/A Anticipated geological markers: Brooks
Intended zone(s) of completion Brooks Estimated total depth 3190 feet.

(Name, depth and expected pressure)

It is understood that if changes in this plan become necessary, we are to notify you immediately.

Name of Operator <u>Aera Energy LLC</u>			
Address <u>P.O. Box 11164</u>		City <u>Bakersfield, CA.</u>	Zip Code <u>93389-1164</u>
Name of Person Filing Notice <u>Misty Rogers for</u>	Telephone Number <u>661-665-5294</u>	Signature <u>Misty Rogers</u>	Date <u>9/26/2011</u>
Mark DuFrene, Agent			
Individual to contact for technical questions: <u>Will Thrasher</u>	Telephone Number <u>661-979-3505</u>	email <u>wjthrasher@aeraenergy.com</u>	

This notice and indemnity or cash bond shall be filed, and approval given, before drilling begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

DATE: 08/22/2011

LOCATION: CAT CANYON, SANTA MARIA

SEC. 32, T.9N., R.32W., S.B.B.M.

PACKAGE: X10-ECC-A



1930 22nd STREET BAKERSFIELD, CA. 93301
PH. (661) 323-4600 FAX (661) 323-4674

ENGINEERING • PLANNING • SURVEYING
LAND DEVELOPMENT • CONSTRUCTION MANAGEMENT

JOB NO.: 10-299

CLIENT: AERA ENERGY LLC

SHEET: 1 OF 1

NAD27 ZONE: V

Scale 1" = 500'

LEGEND

- Well Surface Location
- △ Well Target Location
- Well "As-Built" Location
- ⊕ Section Corner
- ⬡ Casing Point

PRELIMINARY PLAT

NAD 83
LAT: 34.816843
LONG: -120.275196

30 29
31 32

S02°13'45"W
1524.00'

S87°46'13"E
644.31'



FLDG2

SURFACE LOCATION

Y = 486948.79 N
X = 1317453.17 E
GL = 876.14'

SURFACE TO TARGET

N54°06'26"E 324.43'
L = 190.21' NORTH
D = 262.83' EAST

BHL TARGET

Y = 487139.0 N
X = 1317716.0 E

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DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES

East Cat Canyon Drilling Worksheet

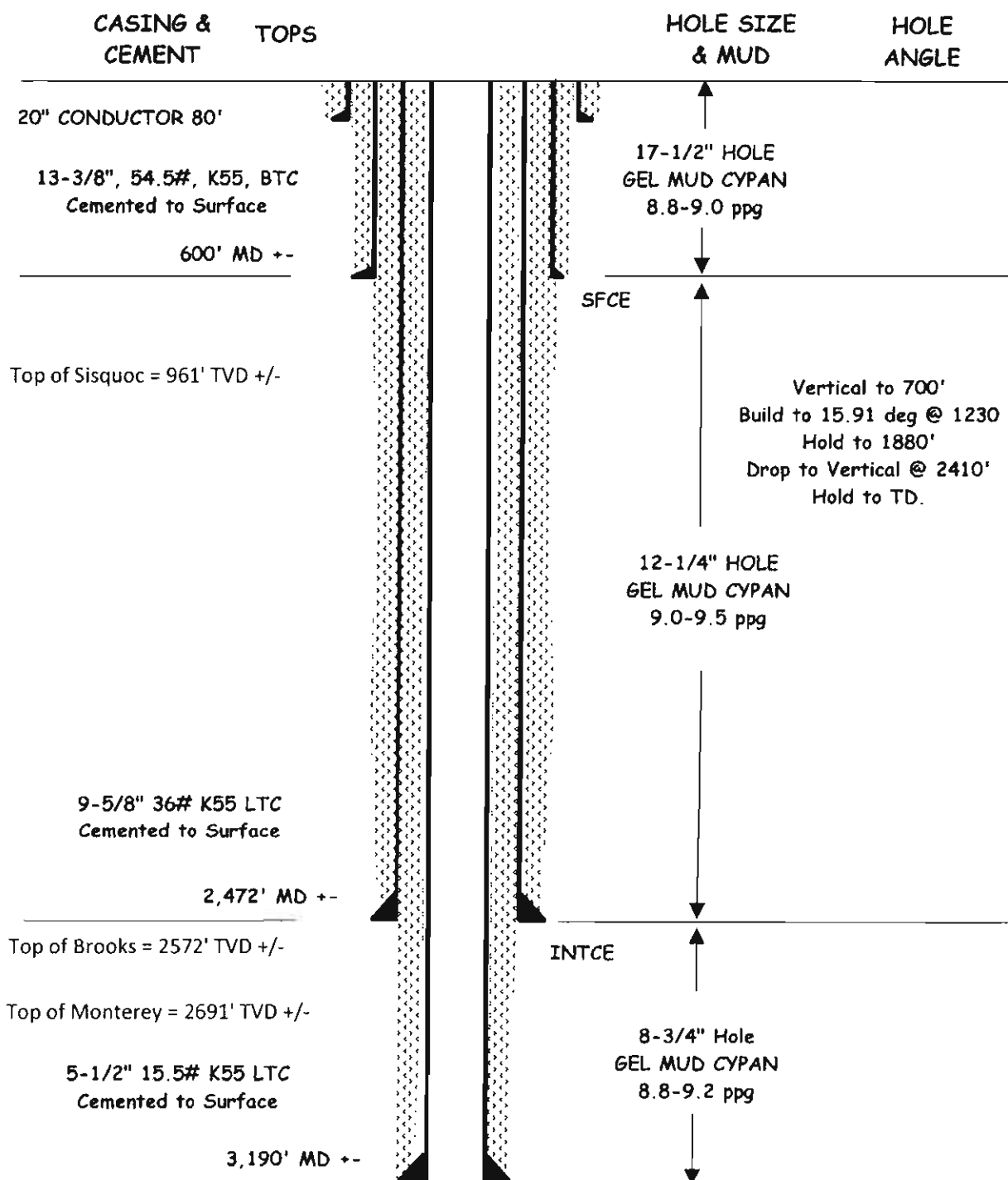
WELL: FIELDFEE-62

Well Type: TOW

RIG: GSD 14

DATE: 9/14/2011

KB ELEV: 13



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DIVISION OF OIL, GAS AND
GEOTHERMAL RESOURCES